

**Panasonic**

# LUMIX GH5

EMBARGO: 6:45PM (UTC/GMT), 4TH JAN, 2017

2016 (Photokina)

2017

HYBRID PHOTOGRAPHY

GH

For Professionals

4K

GH4

2014.2

16.05MP, Venus Engine, 12 fps Burst, DFD  
 OLED – 2359k LVF, 3.0" 1036k Monitor (FA)  
 4K 30p/25p/24p, High Bitrate  
 Mg Body, Splash/Dustproof, Wi-Fi with NFC

G

Shooting Style

4K

G7/70

2015.5

16.00MP, Venus Engine, 8 fps Burst, DFD  
 2360k OLED LVF, 3.0" 1040k Monitor (FA)  
 4K 30p(25p)/24p  
 Wi-Fi with PW-Less

4K

G80/81/85

2016.9

16MP w/o LPF, Venus Engine, 9 fps Burst, DFD  
 5-axis Dual I.S. 2 (Body 5-axis / Lens 2-axis)  
 2360k OLED LVF, 3.0" 1040k Monitor (FA)  
 4K 30p/25p/24p, Wi-Fi with PW-Less

4K

GH5

2017.3

20.3MP w/o LPF, New Venus Engine, 12 fps Burst, Advanced DFD  
 5-axis Dual I.S. 2 (Body 5-axis / Lens 2-axis)  
 3680k OLED LVF, 3.2" 1620k RGBW Monitor (FA)  
 4K 60p/50, High Bitrate, 4:2:2 10bit Internal Rec  
 Mg Body, Splash/Dust/Freezeproof -10°C/14°F, Wi-Fi / Bluetooth

STREET PHOTOGRAPHY

GX

For High-Amateurs

4K

GX8

2015.07

20.3MP, Venus Engine, 8 fps Burst, DFD  
 Dual I.S. (Body 4-axis / Lens 2-axis)  
 OLED - 2360k LVF (Tilt), 3.0" 1040k Monitor (FA)  
 4K 30p(25p)/24p,  
 Mg Body, Splash/Dustproof, Wi-Fi with NFC

4K

GX80/85

2016.5

16MP w/o LPF, Venus Engine, 8 fps Burst, DFD  
 5-axis Dual I.S. (Body 5-axis / Lens 2-axis)  
 2360k LVF, 3.0" 1040k Monitor (Tilt)  
 4K 30p(25p)/24p, Wi-Fi with PW-Less

2013.8 GX7

GM

Premium Compact Body

GM5

2014.9

2013.10 GM1

16MP, Venus Engine, 5.8 fps Burst  
 1166k LVF, 3" 921k Monitor  
 1080 60p(50p)  
 Wi-Fi

GF

Fashionable

GF7

2015.1

2013.4 GF6

16MP, Venus Engine, 5.8 fps Burst  
 3.0 1040k Monitor (Tilt)  
 1080 60p(50p), Wi-Fi with PW-Less  
 Hands-free Selfie

GF8

2016.1

16MP, Venus Engine, 5.8 fps Burst  
 3.0 1040k Monitor (Tilt)  
 1080 60p(50p), Wi-Fi with PW-Less  
 Hands-free Selfie & Beauty Retouch

4K

GX800

2017.2

16MP w/o LPF, Venus Engine, 5.8 fps Burst, DFD  
 3.0" 1040k Monitor (Tilt)  
 4K 30p/25p/24p, Wi-Fi with PW-Less  
 Hands-free Selfie & Beauty Retouch

# High-end, Hybrid, High-performance

## Photo Enthusiast

The highest-ever picture quality in LUMIX and high mobility that is advantages of Micro Four Thirds.

- Specializing in **FIELD PHOTOGRAPHERS** with its compact size & lightweight body.
- Dominating the field of **NATURE and DOCUMENTARIES** by enhancing mobility and overcoming image quality.
- Attracting **HYBRID PHOTOGRAPHERS** who want to expand their business with video in addition to still pictures by improving their cinema / video shooting skills.

## Pro Videographers

Professional video recording performance to lead DSLR/DSLM video camera market

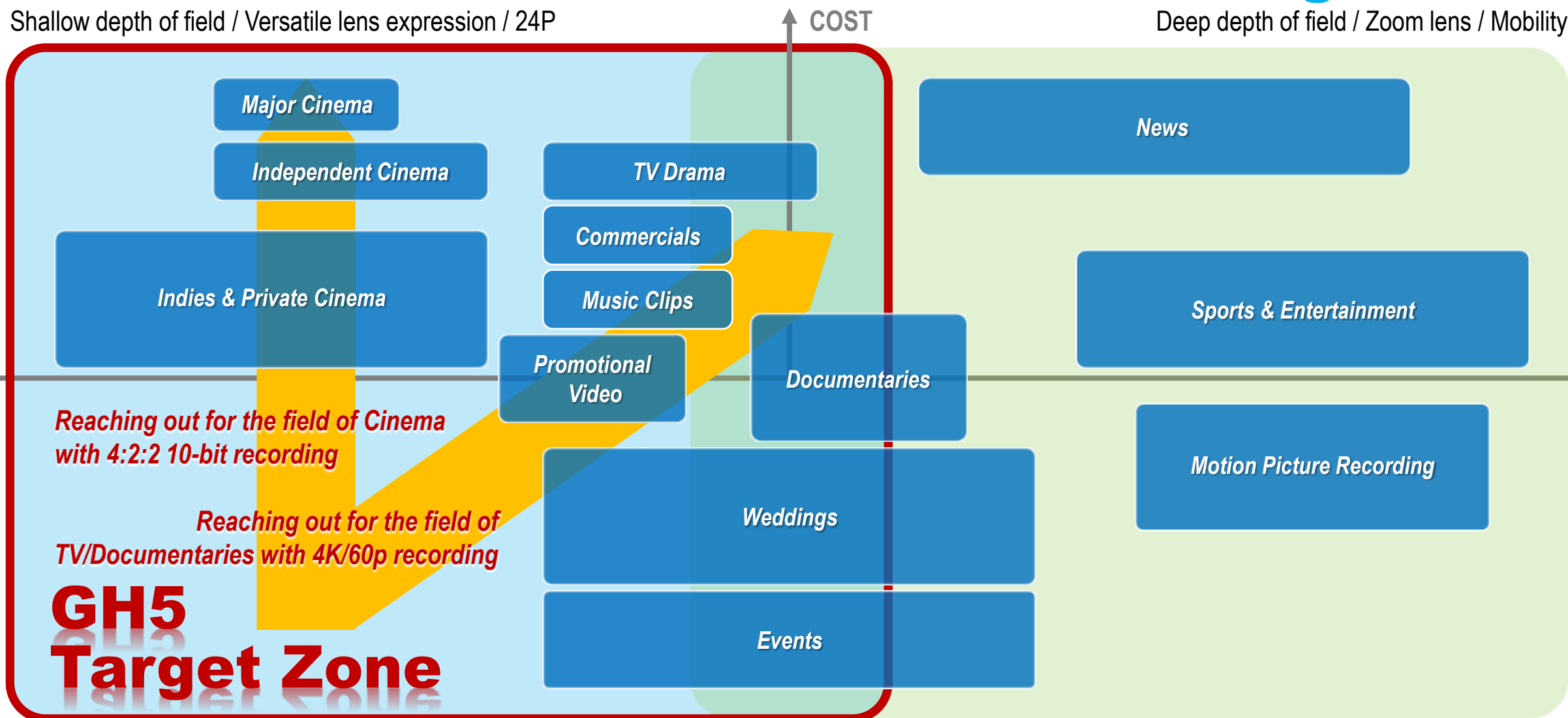
- For **CINEMA or FILM CREATORS** with its large sensor, interchangeable lenses and 4K.
- For the field of **EVENT, WEDDINGS and YOUTUBERS** by enhancing mobility.
- Dominating the field of **NATURE and DOCUMENTARIES** by 4K 60p/50p high-quality video recording.

# Cinema Market

Shallow depth of field / Versatile lens expression / 24P

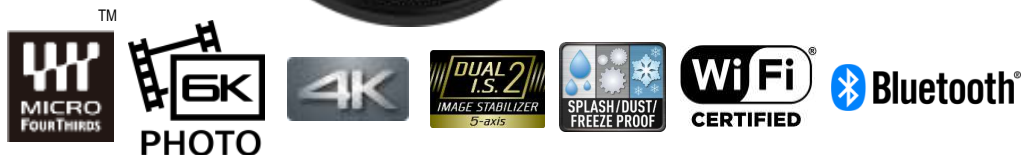
# Broadcasting Market

Deep depth of field / Zoom lens / Mobility



The Highest-Ever Picture Quality and Professional 4K Video Shooting Performance

# PHOTOS. VIDEOS. Explore New Frontiers.



- 1 New 20.3MP Sensor w/o LPF / NEW Venus Engine / 5-axis Dual I.S. 2  
**The Highest-Ever Picture Quality in LUMIX**
- 2 4K60p / 4:2:2 10bit 4K30p / No Cropping / Unlimited Recording Time  
**Pro Shooting Performance for Video Production**
- 3 0.05 sec AF with Advanced DFD / 6K PHOTO 30fps / 4K PHOTO 60fps  
**Intuitive Response to Photographer's Intention**
- 4 Splash/Dust/Freezeproof / Mag Alloy Body / 200k Shutter Life / Double SD Slot  
**High Reliability and Durability for Professionals**
- 5 Bluetooth / Wi-Fi 5GHz / HDMI Type A / USB 3.1 / XLR Mic Adaptor (Optional)  
**System Expandability for Professionals** \* 5GHz Wi-Fi is not available in some countries.

■ Body  
 ■ A Kit: 12-35mm/F2.8 (H-HSA12035) ■ L Kit: 12-60mm/F2.8-4.0 (H-ES12060)  
 ■ M Kit: 12-60mm/F3.5-5.6 (H-FS12060)

AFS 12 fps / AFC 9 fps  
Burst Shooting

3,680k-dot  
0.76x OLED LVF

3.2" 1,620k-dot  
Free-angle Monitor

Battery Grip  
(Optional)

		GH5	GH4
Sensor		<b>New Digital Live MOS 20.3MP w/o LPF</b>	Digital Live MOS 16.05MP
ISO sensitivity		ISO200-25600, Extended ISO100	ISO200-25600, Extended ISO100
View finder		<b>3,680k-dot OLED, 21mm, 0.76x</b>	2,360k-dot OLED, 21mm, 0.67x
Rear monitor		<b>3.2" 3:2 1,620k-dot RGBW LCD, Free-angle, Static touch</b>	3.0" 3:2 1,040k-dot OLED, Free-angle, Static touch
AF		<b>Advanced DFD, Approx. 0.05sec</b>	DFD, Approx. 0.07sec
Shutter	Shutter speed	<b>1/8,000-60, Electronic first curtain shutter (1/2,000 -60), Bulb 30min, X=1/250</b>	1/8,000-60, Bulb 60min, X=1/250
	Shutter life	200,000 times	200,000 times
Built-in flash		- (External flash burst function is added)	<b>GN12 (ISO100), 24mm</b>
Burst shooting		<b>AFS 12fps, AFC 9fps</b> <b>JPEG: Approx. 600 images, RAW: Approx. 60 images</b>	AFS 12fps, AFC 7fps JPEG: Approx. 100 images, RAW: Approx. 40 images
Body image stabilizer		<b>5-axis / 5 stops</b>	-
6K PHOTO / 4K PHOTO		<b>6K PHOTO: 18MP 30fps (HEVC recording)</b> <b>4K PHOTO: 8MP 60fps (H.264 recording)</b>	- 4K PHOTO: 8MP 30fps
Toughness		<b>Mg alloy body, Splash/Dust/Freezeproof -10°C/14°F</b>	Mg alloy body, Splash/Dustproof
Video	Format	MOV, AVCHD Progressive, MP4	MOV, AVCHD Progressive, MP4
	Recording rate	<b>4K60/50p (4:2:0 8bit)</b> <b>4K30/25p/24p (4:2:2 10bit)</b> <b>No cropping</b>	- 4K30/25p/24p (4:2:0 8bit) Cropping
	VFR (Variable Frame Rate)	<b>4K: Max. 60fps</b> <b>FHD: Max. 180fps</b>	- FHD: Max. 96fps
	Monitor output	<b>4:2:2 10bit output &amp; internal recording (4K60p/50p is output only)</b> 4:2:2 8bit output & internal recording	4:2:2 10bit (no internal recording) 4:2:2 8bit output & internal recording
SD card slot		<b>2, UHS-II U3</b>	1, UHS-I U3
Wi-Fi / Bluetooth / NFC		<b>802.11a/n/ac (5GHz) / Bluetooth4.2 (Low Energy) / -</b> * 5GHz Wi-Fi is not available in some countries.	802.11b/g/n (2.4GHz) / - / Yes
Dimensions (W x H x D)		138.5 x 98.1 x 87.4 mm (excluding protrusions)	132.9 x 93.4 x 83.9mm (excluding protrusions)
Weight		Approx. 725g (SD card, battery, body)	Approx. 560g (SD card, battery, body)
Accessory		Battery grip (BGGH5) <b>Gun mic (MS2), XLR mic adaptor (XLR1)</b>	Battery grip (BGGH3) Gun mic (MS2), Interface unit (YAGH)



# The Highest-Ever Picture Quality in LUMIX

## Digital Live MOS Sensor

New Digital Live MOS Sensor achieves high-quality, high-sensitivity image recording with quick response.

### 20.3MP w/o LPF - Higher Resolution

- Pixel count increased 25% (GH4 16.05 MP → GH5 20.3MP)
- Maximized the resolving power of the lens *by Removing the LPF*

### 1.66 Times Faster Readout Speed (vs GH4)

- Still picture: GH4 approx. 40ms → *GH5 approx. 24ms*
- 4K video: GH4 approx. 22ms → GH5 approx. 15ms
- Fast continuous shooting
- *No Cropping* 4K 60p/50p video
- *Suppressed Rolling Shutter Distortion* when using an electronic shutter or while video recording.

## Venus Engine

Venus Engine improvements achieve "Natural Texture Expression."

### Improved Resolution

*Multipixel Luminance Generation* & *Intelligent Detail Processing* realize natural, high-resolution expression and improve color moiré suppression.

### Rich Color Expression

*Three-dimensional Color Control* improves color reproduction of bright and shadow areas.

### Natural and True-to-life Image

Natural image from low to high sensitivity.

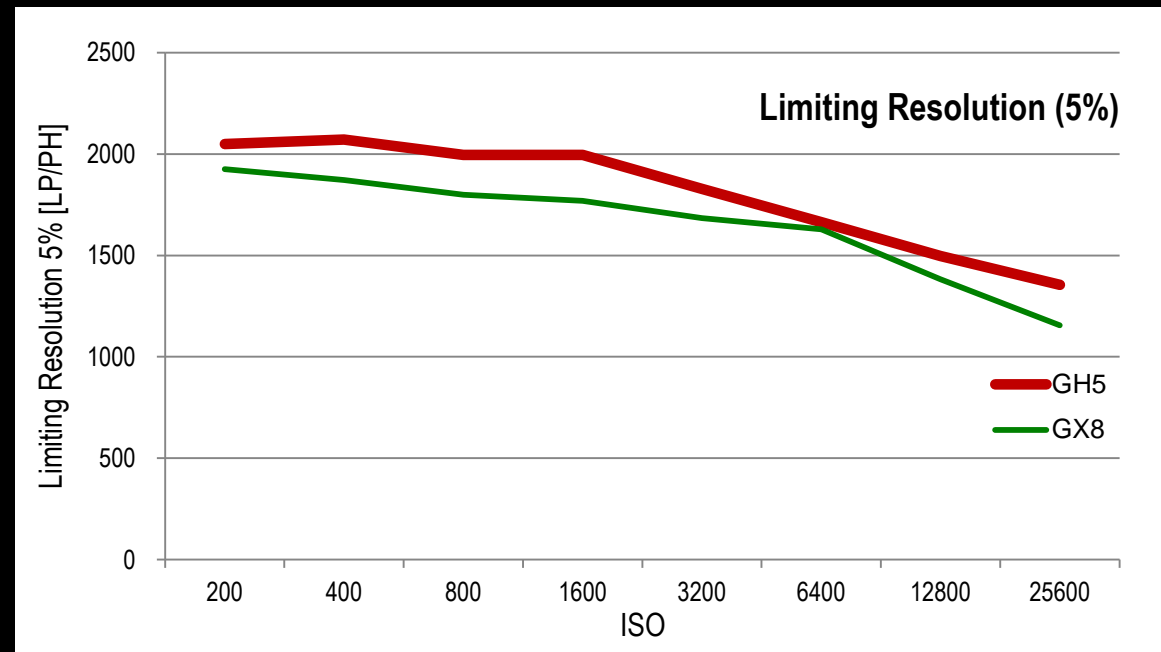
### 1.3 Times Faster Processing (vs GH4)

1.3 times faster processing by *5 Core Codecs* realizes no cropping 4K 60p/50p video and 30fps 6K PHOTO (HEVC / H.265).

## 20.3MP Digital Live MOS Sensor w/o Low Pass Filter

Approx. 5% Improvement in Limiting Resolution

NEW



Removing the LPF improves limiting resolution by approx. 5% compare to the GX8 while minimizing moiré by the high performance Venus Engine.

**Crisp, Clear, Impressive Images  
with High-Resolution, True-to-Life Details**



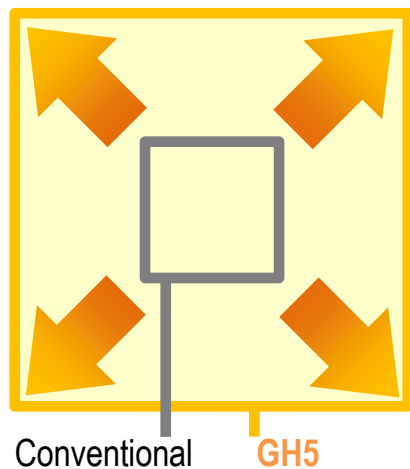
## High Resolution with Natural Texture

Multipixel Luminance Generation & Intelligent Detail Processing & New Sensor with No Low Pass Filter

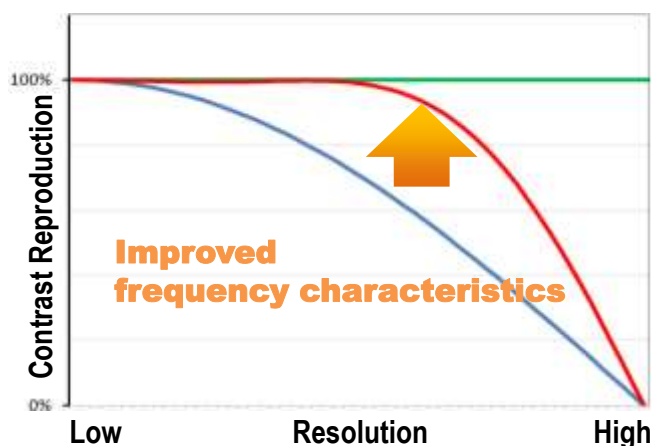
### Multipixel Luminance Generation

Reference of a 9 times wider range of pixel information improves frequency characteristics compared to conventional demosaic processing.

#### 9 Times Area



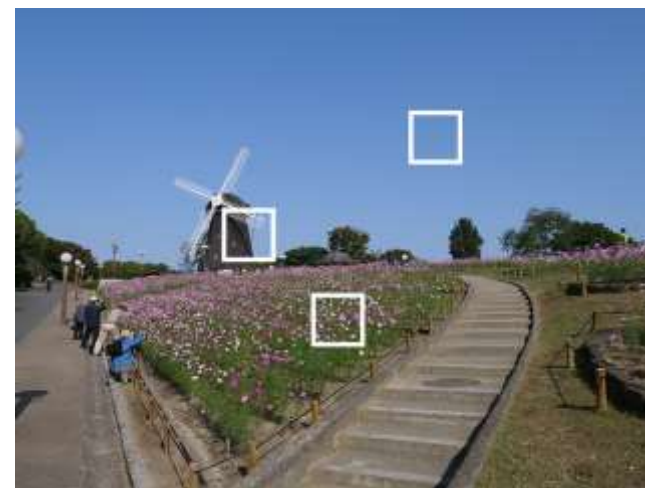
- Conventional Processing - New Processing



It Reproduces Subjects in Detail to Achieve Higher Resolution

### Intelligent Detail Processing

This separates the subject into flat, detailed, or edged areas by analyzing the characteristics of the subject for each pixel to control the edge emphasis.



**Flat Area**  
No emphasis



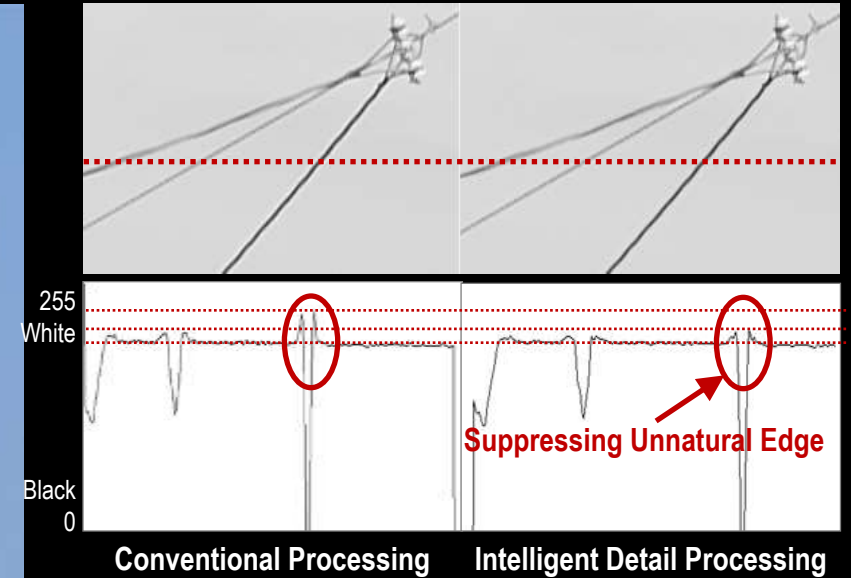
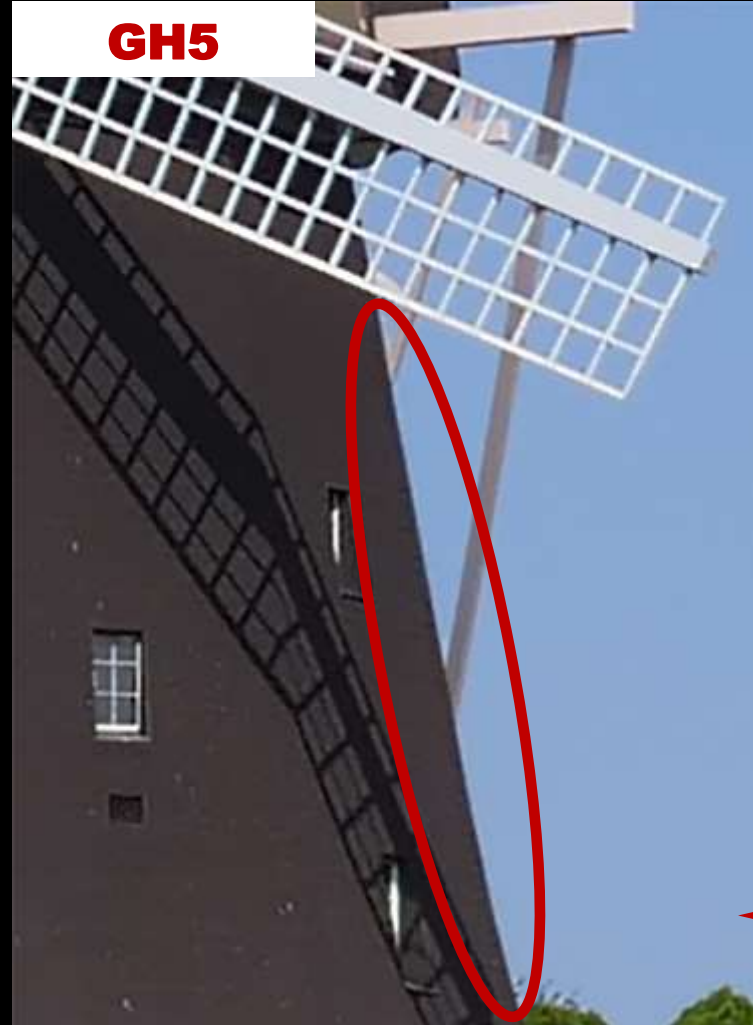
**Detailed Area**  
Edge emphasis



**Edge Area**  
Suppressing  
unnatural edges

Details Are Emphasized While Suppressing Unnatural Edges

# Natural, High Resolution without Unnatural Edges

**GH4****GH5****GH5: No Unnatural White Edges**



## Natural, High Resolution in Details

GH4



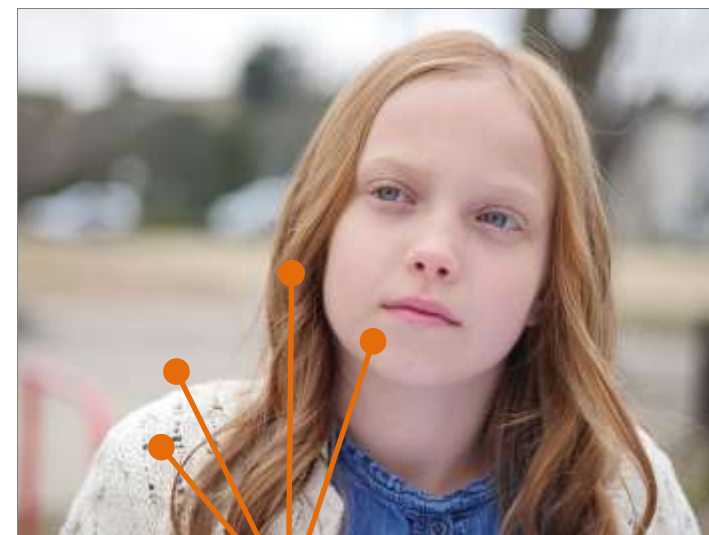
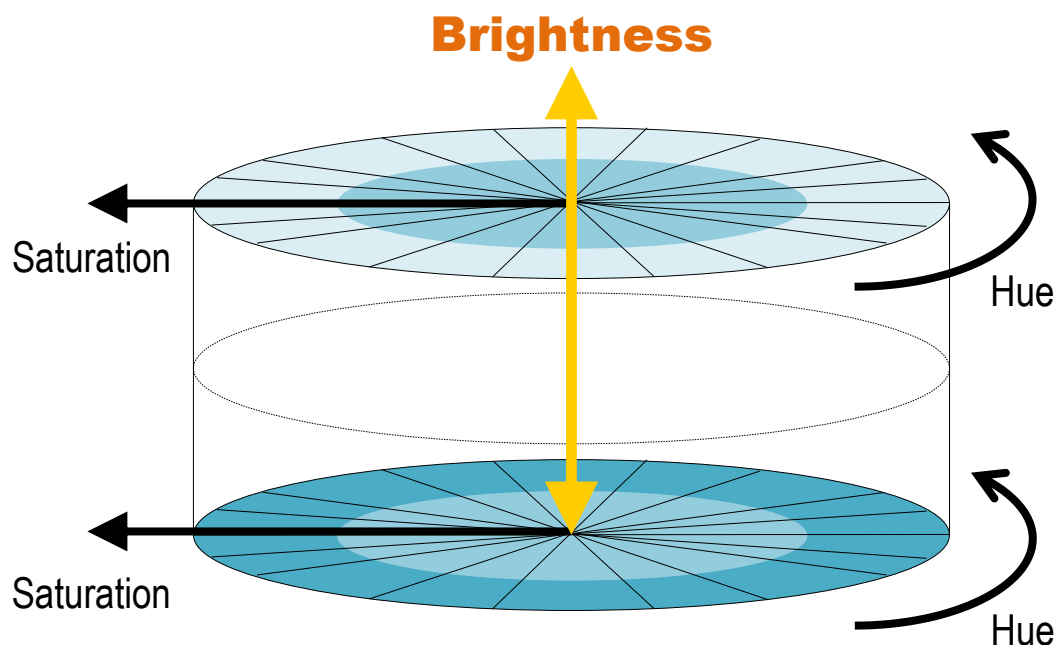
GH5



GH5: Individual Leaves are Clear

## New Three-dimensional Color Control - Rich Color Expression

The bright parts and the dark parts are separately reproduced by adopting color control according to brightness.



Skin color is extracted from the approximate color, and reproduced with faithful, smooth gradation.

### Rich Color Expression from Dark Parts to Bright Parts



## New Three-dimensional Color Control - Rich Color Expression

**GH4****GH5**

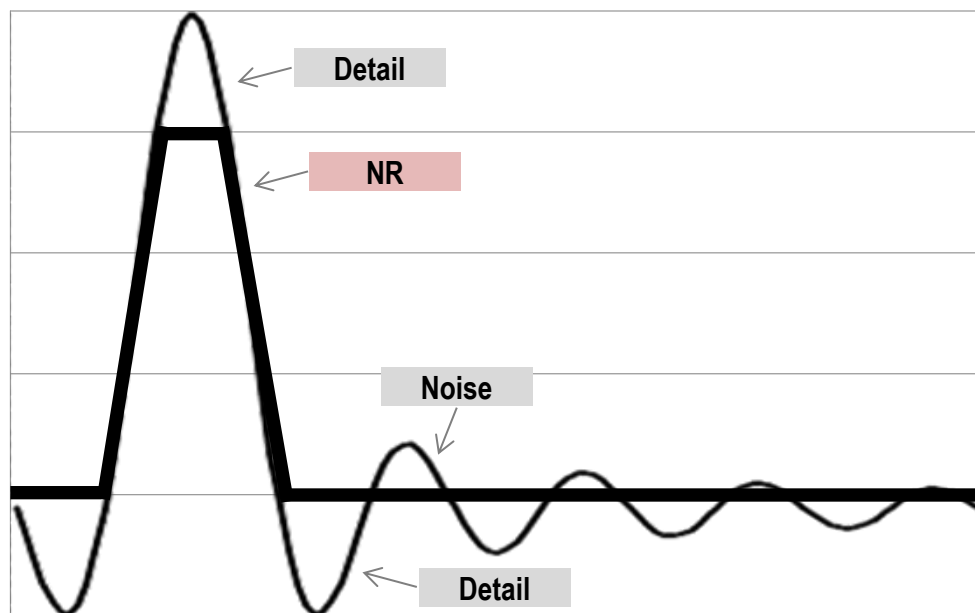
Clear, Bright Blue Sky



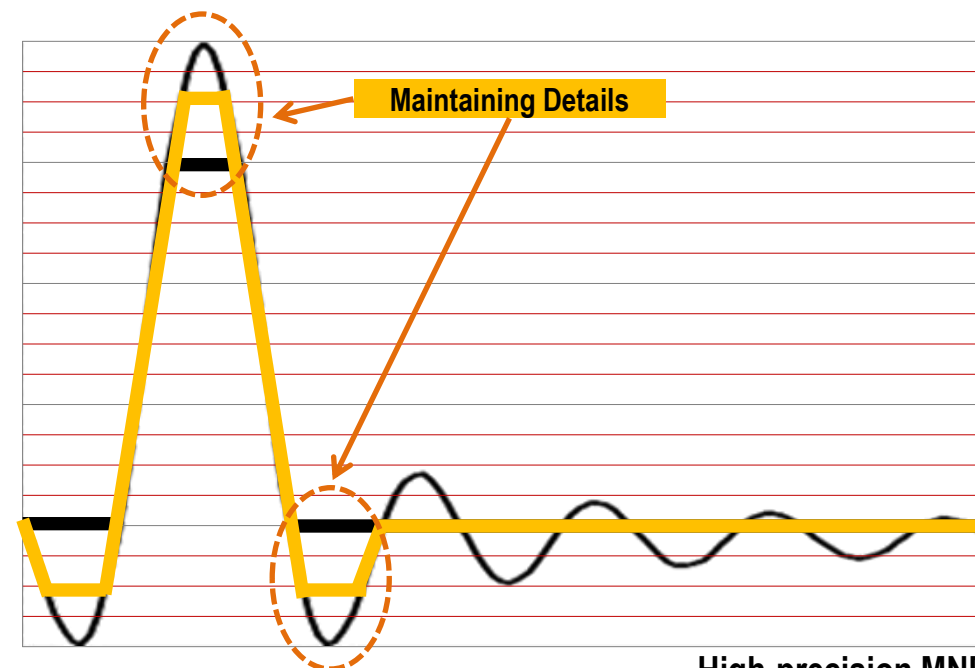


## High-precision Multi Process NR - Natural, Stereoscopic Effects

Noise identification with four times higher resolution improves noise suppression maintains details.



Conventional MNR



High-precision MNR

### Maintains Details When Suppressing Noise

## Natural, Stereoscopic Effects Even at High ISO Settings

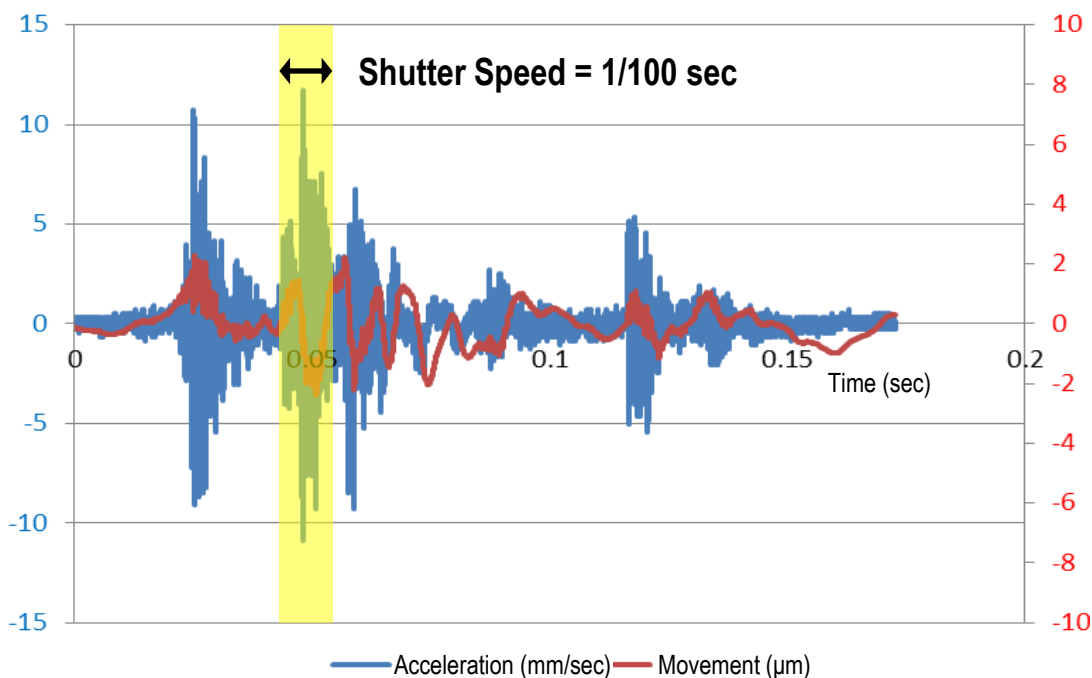
**GH4****GH5****ISO6400****GH5: Natural Noise & Detailed Description**

# High-performance Shutter Unit – 200k Releases & Shock Reduction Down to $\frac{1}{6}$

Approximately.

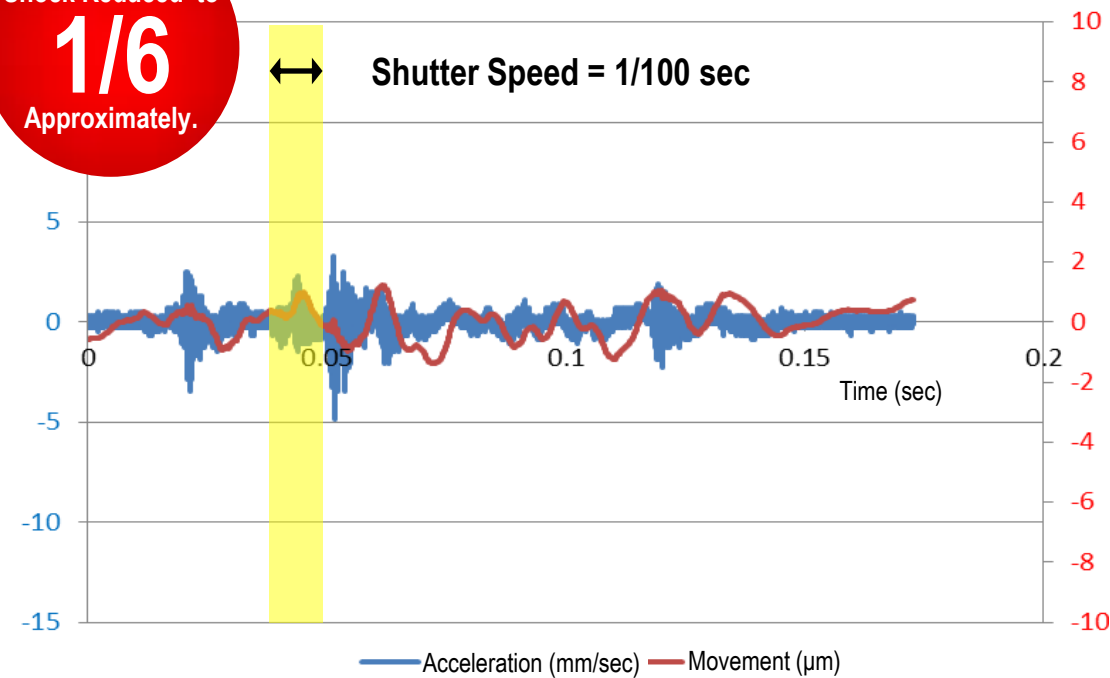
- Durable shutter unit withstands approximately 200,000 releases.
- The LUMIX GH5 uses the spring drive system in the same way as the GH4, but a floating construction for the shutter frame greatly reduces shock to the camera body.

## GH4



## GH5

Shock Reduced to  
 **$\frac{1}{6}$**   
Approximately.



# No More Blurred Images

# 5-stop Correction Power Up to Tele-end\*

NEW



Gyrosensor

The diagram illustrates the 5-axis stabilization system. A camera body and lens are shown in a cutaway view. A red dot labeled 'Gyrosensor' is located on the camera body. Five green arrows, numbered 1 through 5, indicate the directions of movement for the lens and camera body. Blue arrows, numbered 1 and 2, indicate the directions of movement for the lens. The lens is shown with a blue arrow pointing to the right, and the camera body is shown with a blue arrow pointing to the left. The green arrows indicate the directions of movement for the camera body and lens. The lens is shown with a green arrow pointing to the right, and the camera body is shown with a green arrow pointing to the left.

## High Precision Gyrosensor

Detects Shaking Angular Velocity

## New Algorithm

Calculates Shaking Angle / Signal Processing

## Body I.S.

Corrects Shaking

## Lens I.S.

Corrects Shaking

## 5-Stop Compensation Effects

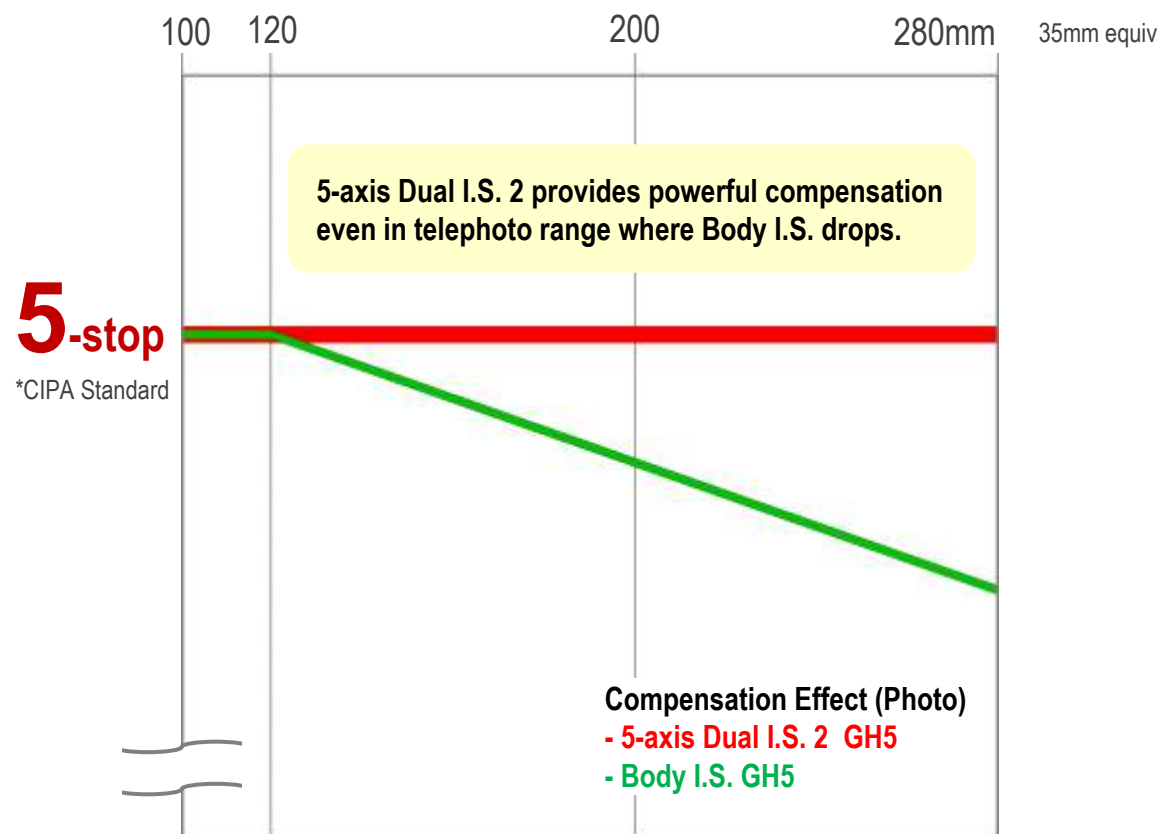
Gyrosensor data from the body is also used to control hand-shake compensation in the lens. Body I.S. and Lens I.S. compensation allocation is controlled in response to the focal length and shooting conditions, making it possible to use a 5-stop slower shutter speed up to tele-end.



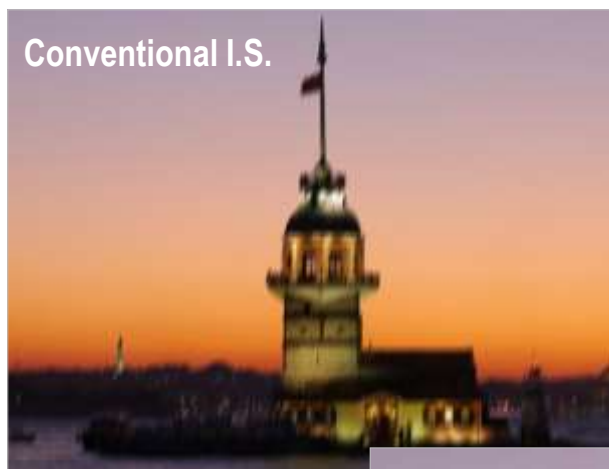
# Blur-free Shots Even at 5-stop Slower Shutter Speed Up to 280mm

NEW

## Compensation Power Maintained Up to 280mm



\* In combination with a 5-axis Dual I.S. 2 compatible lens.



1/8sec, Blurred

Crisp & Clear

1/8 sec



**5-axis Dual I.S. 2 Compatible Lens : Max. 5-stop Correction Power from Wide to Tele**  
**Other Lenses incl. Classic Lens : Max. 5-stop Correction Power by Body I.S.**

			LUMIX Lens				Classic Lens			
			Axis		Compensation Effects		Axis		Compensation Effects	
			Still	Video	Wide <sup>*1</sup>	Tele <sup>*2</sup>	Still	Video	Wide~ <sup>*1</sup>	Tele~ <sup>*2</sup>
<b>GH5</b>	<b>5-axis Dual I.S. 2</b>	Body	<b>5-axis</b>	<b>5-axis<sup>*3</sup></b>	<b>5-stop</b>	<b>5-stop</b>	<b>3-axis</b>	<b>5-axis<sup>*3</sup></b>	<b>5-stop</b>	<b>-</b>
		Lens	<b>2-axis</b>	<b>2-axis</b>			<b>-</b>	<b>-</b>		
<b>GH4</b>	Lens I.S.		<b>2-axis</b>	<b>2-axis</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

		5-axis Dual I.S. 2	5-axis Dual I.S.	Body I.S.
Kit Lens	LUMIX G VARIO 12-60mm / F3.5-5.6 ASPH. / POWER O.I.S.	✓ Firmware Update	✓	
	LEICA DG VARIO-ELMARIT 12-60mm / F2.8-4.0 ASPH. / POWER O.I.S. <i>New</i>	✓	✓	
	LUMIX G X VARIO 12-35mm / F2.8 ASPH. II / POWER O.I.S. <i>New</i>	✓	✓	
LUMIX G Lens	LUMIX G X VARIO 35-100mm / F2.8 II / POWER O.I.S. <i>New</i>	✓	✓	
	LUMIX G VARIO 45-200mm / F4.0-5.6 II / POWER O.I.S. <i>New</i>	✓	✓	
	LUMIX G VARIO 100-300mm / F4.0-5.6 II / POWER O.I.S. <i>New</i>	✓	✓	
	LUMIX G VARIO 14-140mm / F3.5-5.6 ASPH. / POWER O.I.S.	✓ Firmware Update	✓ Firmware Update	
	LEICA DG VARIO-ELMAR 100-400mm / F4.0-6.3 ASPH. / POWER O.I.S.	Firmware Update in Feb 2017	✓	
	LUMIX G X VARIO 12-35mm / F2.8 ASPH. / POWER O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G VARIO 14-42mm / F3.5-5.6 II ASPH. / MEGA O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G X VARIO 35-100mm / F2.8 / POWER O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G VARIO 12-32mm / F3.5-5.6 ASPH. / MEGA O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G VARIO 35-100mm / F4.0-5.6 ASPH. / MEGA O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G VARIO 45-150mm / F4.0-5.6 ASPH. / MEGA O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G MACRO 30mm / F2.8 ASPH. / MEGA O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LEICA DG NOCTICRON 42.5mm / F1.2 ASPH. / POWER O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LUMIX G 42.5mm / F1.7 ASPH. / POWER O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	LEICA DG MACRO-ELMARIT 45 mm / F2.8 ASPH. / MEGA O.I.S.	Firmware Update in 2017	✓ Firmware Update	
	Other Lenses			✓
Other Brand Lens				✓

# Pro Video Shooting Performance

# Pro Shooting Performance for Video Production

## 4K 60P/50P

NEW

### Smooth, High-resolution

3,840 x 2,160	59.94p 50.00p	150Mbps	4:2:0 8bit LongGOP MP4/MOV
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## 4:2:2 10bit Internal Rec

NEW

( Except for 4K 60p/50p recording )

### Rich Color Profiling

4,096 x 2,160	24.00p etc.	150Mbps	4:2:2 10bit LongGOP MP4/MOV
3,840 x 2,160	29.97p etc.		
1,920 x 1,080	59.94p etc.	100Mbps*	

\* Firmware update in April 2017.

## 400Mbps\*\* All-Intra

NEW

( Except for 4K 60p/50p recording )

### High Affinity for Non-linear Editing

4,096 x 2,160	24.00p	400Mbps**	4:2:2 10bit All-Intra MP4/MOV
3,840 x 2,160	29.97p etc.		
1,920 x 1,080	59.94p etc.	200Mbps**	

\*\* Firmware update in second half of 2017.

Ready for 400Mbps recording by Video-grade class 60 SD Card.

- ◆ No Cropping - High-resolution & Perfect Focal Length
- ◆ Unlimited Recording Time in All Settings

NEW



# Pro Shooting Performance for Video Production

## Global Use

- System Frequency (59.94 / 50.00 / 24.00Hz)
- MOV, MP4 (AAC, LPCM), AVCHD Progressive
- Hybrid Log Gamma\* for 4K HDR Video **New**

\* Firmware update in second half of 2017.

## Expandability

- 4:2:2 10bit HDMI Live Output & Internal Rec **New**
- HDMI Type A Terminal **New**
- Double SD Slot & UHS-II U3 Compatibility **New**
- Optional XLR Mic Adaptor **New**

## Versatile Video Expression

- Variable Frame Rate 4K / FHD **New**
- Focus Transition **New**
- V-LogL\* & LUT Display Function **New**
- High-resolution Anamorphic Video\*\* **New**

\* Upgrade software key DMW-SFU1 is needed.

\*\* TBD. Firmware update in second half of 2017.

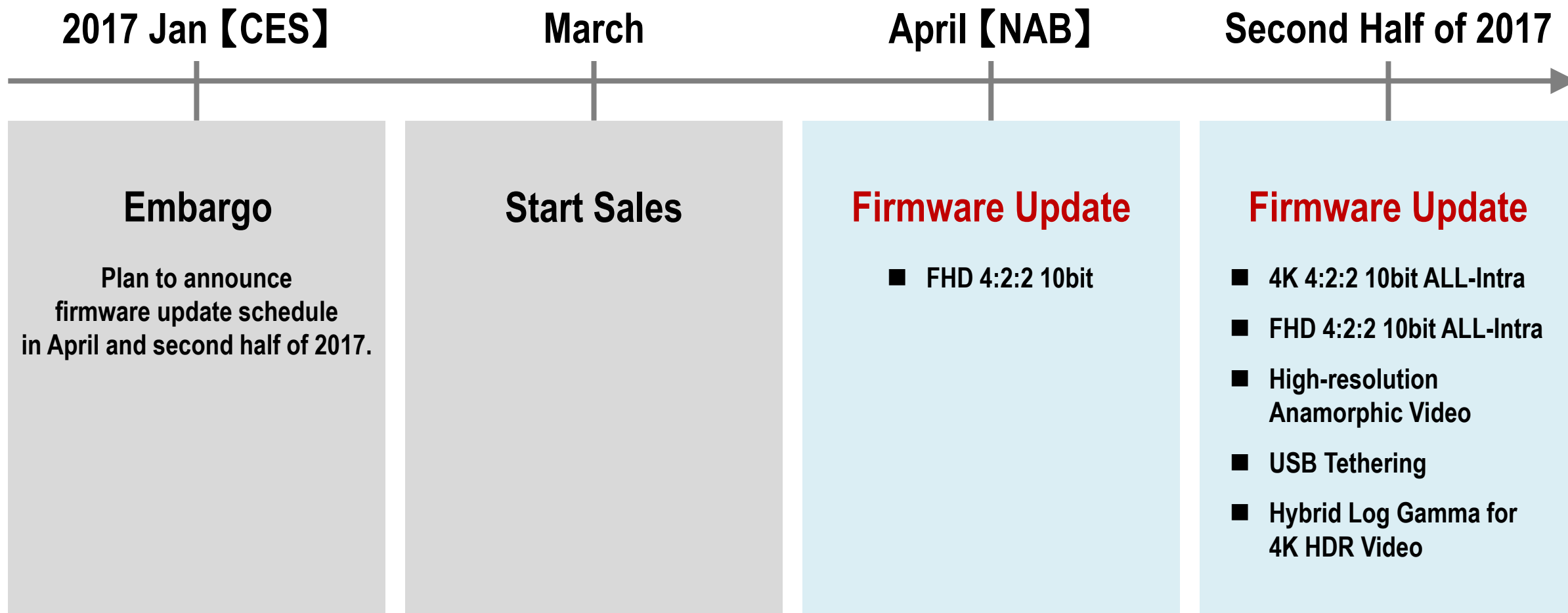
## Pro Shooting Assist Features

- Heat-Dispersing Design & Unlimited Recording
- 5-Axis Dual I.S. 2 **New**
- Wave Form Monitor / Vectorscope **New**
- Like709 Gamma & Knee Control **New**
- Built-in Microphone with NR Structure **New**
- Luminance Level 64-1023 / 64-940 / 0-1023 (10bit) **New**

	Container	Recording Size	System Frequency	Frame Rate	Bitrate	Color Subsampling	Compression	Sound	GH5	GH4
59.94Hz	MOV / MP4	C4K	4,096 x 2,160	23.98p	400Mbps	4:2:2 10bit	ALL-Intra	LPCM High-Res Audio for MOV	2nd half of 2017	-
					150Mbps				✓	-
					100Mbps	4:2:0 8bit	LongGOP		✓	-
		4K	3,840 x 2,160	59.94p	150Mbps	4:2:0 8bit			✓	-
				29.97p / 23.98p	400Mbps	4:2:2 10bit	ALL-Intra		2nd half of 2017	-
					150Mbps				✓	-
					100Mbps	4:2:0 8bit	LongGOP		✓	✓
	MP4						AAC	✓	✓	
50.00Hz	MOV / MP4	4K	3,840 x 2,160	50.00p	150Mbps	4:2:0 8bit	LongGOP	LPCM High-Res Audio for MOV	✓	-
				25.00p	400Mbps	4:2:2 10bit	ALL-Intra		2nd half of 2017	-
					150Mbps				✓	-
					100Mbps	4:2:0 8bit	LongGOP		✓	✓
	MP4						AAC	✓	✓	
24.00Hz	MOV / MP4	C4K	4,096 x 2,160	24.00p	400Mbps	4:2:2 10bit	ALL-Intra	LPCM High-Res Audio for MOV	2nd half of 2017	-
					150Mbps				✓	-
					100Mbps	4:2:0 8bit	LongGOP		✓	✓
		4K	3,840 x 2,160		400Mbps	4:2:2 10bit	ALL-Intra		2nd half of 2017	-
					150Mbps				✓	-
					100Mbps	4:2:0 8bit	LongGOP		✓	✓

	Container	Recording Size	System Frequency	Frame Rate	Bitrate	Color Subsampling	Compression	Sound	GH5	GH4
59.94Hz	MOV / MP4	FHD	1,920 x 1,080	59.94p / 29.97p / 23.98p	200Mbps	4:2:2 10bit	ALL-Intra	LPCM High-Res Audio for MOV	2nd half of 2017	(4:2:0 8bit)
					100Mbps		LongGOP		April 2017	-
						4:2:0 8bit			✓	✓
50.00Hz	MOV / MP4	FHD	1,920 x 1,080	50.00p / 25.00p	200Mbps	4:2:2 10bit	ALL-Intra	LPCM High-Res Audio for MOV	2nd half of 2017	(4:2:0 8bit)
					100Mbps		LongGOP		April 2017	-
						4:2:0 8bit			✓	✓
24.00Hz	MOV / MP4	FHD	1,920 x 1,080	24.00p	200Mbps	4:2:2 10bit	ALL-Intra	LPCM High-Res Audio for MOV	2nd half of 2017	(4:2:0 8bit)
					100Mbps		LongGOP		April 2017	-
						4:2:0 8bit			✓	✓
59.94Hz	MP4	FHD	1,920 x 1,080	59.94p	28Mbps	4:2:0 8bit	LongGOP	AAC	✓	✓
				23.98p	24Mbps				✓	✓
				29.97p	20Mbps				✓	✓
	AVCHD			59.94p	28Mbps			Dolby	✓	✓
				59.94i / 23.98p	24Mbps				✓	✓
				59.94i	17Mbps				✓	✓
									✓	✓
50.00Hz	MP4	FHD	1,920 x 1,080	50.00p	28Mbps	4:2:0 8bit	LongGOP	AAC	✓	✓
				25.00p	20Mbps				✓	✓
	AVCHD			50.00p	28Mbps			Dolby	✓	✓
				50.00i	24Mbps				✓	✓
				50.00i	17Mbps				✓	✓
24.00Hz	MP4	FHD	1,920 x 1,080	24.00p	24Mbps	4:2:0 8bit	LongGOP	AAC	✓	✓

		GH5		GH4	
4K video	4096 x 2160		24p		24p
	3840 x 2160		60p / 50p / 30p / 25p / 24p		30p / 25p / 24p
Using sensor area			No cropping		Cropping
4:2:2 10bit recording	4K		30p / 25p / 24p		-
	FHD	2nd half of 2017	60p / 50p / 30p / 25p / 24p		-
ALL-Intra high bitrate video recording	4K	2nd half of 2017	400Mbps (4:2:2 10bit)		-
	FHD	2nd half of 2017	200Mbps (4:2:2 10bit)		FHD 200Mbps (4:2:0 8bit)
4K file container format (MP4 / MOV LPCM)			✓		✓
System frequency is selectable (59.94Hz (23.98HZ) / 50.00Hz / 24.00Hz)			✓		✓
Anamorphic (4:3) recording	High-resolution anamorphic video	2nd half of 2017	30p / 25p / 24p		-
	4K (H.264)		30p / 25p / 24p		30p / 25p / 24p
HDMI live output			4:2:2 10bit output & Internal rec		4:2:2 8bit output & Internal rec / 4:2:2 10bit output (no internal rec)
VFR	4K (3840 x 2160)		Up to 60fps		-
	FHD		Up to 180fps		Up to 96fps
Photo Style	Cinelike gamma		✓		✓
	V-LogL (optional)		Yes with LUT display function		✓
	Like709 gamma (ITU-R BT.709)		Yes with knee control		-
	Hybrid log gamma for 4K HDR video	2nd half of 2017	✓		-
	Hue adjustment		✓		✓
Luminance level adjustment			64-1023 / 64-940 / 0-1023 (10bit)		16-255 / 16-235 / 0-255 (8bit)
Master pedestal adjustment			✓		✓
Synchro scan (prevent flicker effect)			✓		✓
Wave form monitor display			✓		-
Operation type (Shutter Duration/ISO, Angle/ISO, Shutter Duration/dB)			✓		✓
Time code (rec run / free run)			✓		✓
Color bars & 1kHz test tone			✓		✓
Focus	Focus transition		✓		-
	Focus assist (peaking)		✓		✓
Zebra pattern / Histogram / Center marker			✓		✓
Input / output terminal	SD card slot		2 with relay rec & copy rec		1
			UHS-II U3 (Vide grade 60)		UHS-I U3
	Φ3.5mm mic socket		✓		✓
	Φ3.5mm headphone socket		✓		✓
	HDMI output terminal		Type A		Type D
	XLR audio input		DMW-XLR1 microphone adaptor (optional)		DMW-YAGH (optional)
4:2:2 10 bit SDI video output			-		DMW-YAGH (optional)





## 4:2:2 10bit - High Picture Quality Used for Broadcasting

**DVCPRO HD**

4:2:2 8bit HD

**AVC INTRA**

4:2:2 10bit HD

**AVC ULTRA**

4:2:2 10bit 4K

Official Worldwide Olympic Partner  
**Panasonic**

2004

2008

2012

2016

2020

4:2:2

4:2:0

**4:2:2 10bit 4K  
400Mbps All-Intra****GH5****GH4**

8bit

10bit

**Panasonic**

# 4:2:2 10bit enables faithful color grading, that is essential for professional work

## Shoot



## Edit



- Cut editing
- **Color Grading Process**
- VFX (CG) synthesizing
- Telop superimposing
- Audio editing

## Distribution

Movies



TV



Web

**NETFLIX**

Package  
media

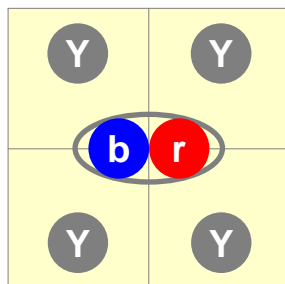


- **Delicate Color Adjustments** can be reproduced to match the color grader's intent.
- **Dynamic Color Adjustments** can be made, such as turning daytime to evening.
- Green backgrounds can be eliminated during CG production.

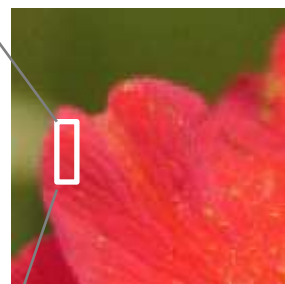
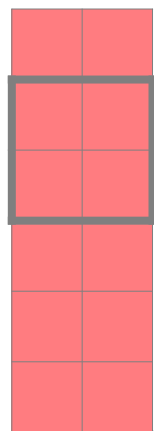


## 4:2:2 Color Subsampling

**4:2:0**

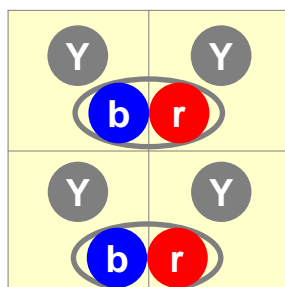


Color information  
on 2 lines

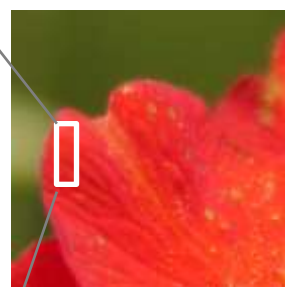
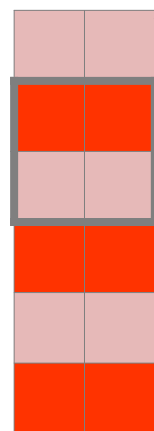


Color is mixed

**2 Times  
Information  
4:2:2**



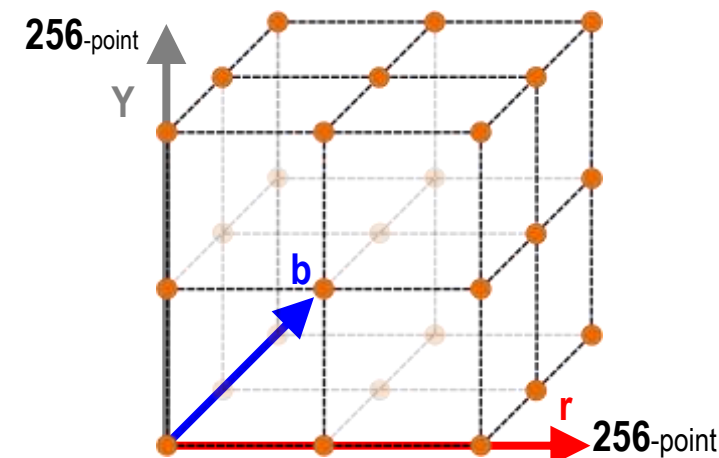
Color information  
on each line



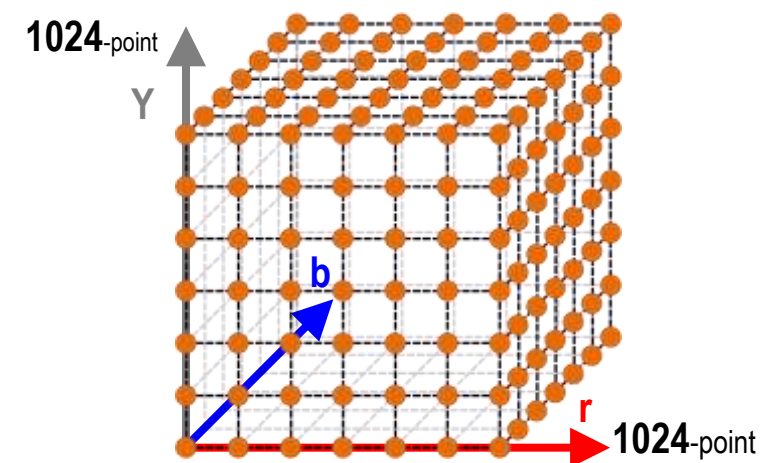
Rich gradation

## 10bit Color Depth

**8bit**



**64 Times  
Information  
10bit**



# 4:2:2 10bit HDMI Live Output & Simultaneous Internal Recording

NEW

## Live Output to External Recorder

Usage examples)

- Apple ProRes/Avid DNxHD - **4:2:2 10bit rec up to 4K60p/50p**
- High quality recording in non-compression recorder



Atomos  
Shogun Inferno

## Simultaneous Internal Recording

Usage examples)

- **4:2:2 10bit simultaneous rec for backup**
- High-quality internal recording in outdoor situations that required mobility



In 4K60p/50p mode, 10bit mode is not selectable (4:2:2 8bit output only while internal recording).  
User can select 4K 60p/50p 4:2:2 10bit output without internal recording.

## Compatibility and Flexibility of Use with Other External Devices

### HDMI Type A Terminal **NEW**

Rarely on digital still cameras, LUMIX GH5 is equipped with HDMI Type A terminal, that is widely used, for professional video production.



**HDMI Type A**

microHDMI Type D (for cameras or smartphones)

\* For [4K 60p] video output, use an HDMI 2.0 cable that has the HDMI logo on it, and that is described as "4K compatible".

### HDMI Cable Lock Holder **NEW**

\* Included accessory.

Cable holder prevents the HDMI cable from getting disconnected by accident or the HDMI socket from being damaged.



### Information Display

It is possible to display information simultaneously on both the main unit's rear monitor and the external monitor.





## Compatibility and Flexibility of Use with Other External Devices

### HDMI Time Code Output

Support for ATOMOS devices and devices that are compatible with ATOMOS expanded specifications. The aim is also to support external monitors capable of time code input via HDMI cable.



\* Setting is possible only in Creative Video mode. Frame frequency setting: Recording content = HDMI output. MP4 is not supported.

### HDMI Rec Control (Start / Stop)

Even when there is no SD card inserted and video cannot be recorded by the camera, output is possible by pressing the motion picture button and shutter button.



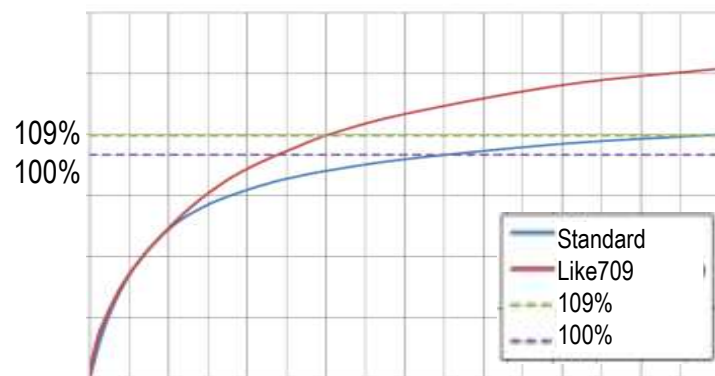
\* Setting is possible only in Creative Video mode. Frame frequency setting: Recording content = HDMI output. MP4 is not supported. When [HDMI Time Code Output] is set to [OFF], the REC control data is not output. Applicable devices only. Not possible with a Panasonic recorder.

## Like709 &amp; Knee Control Suppress Overexposure by High Luminance Video Signals

NEW

**"Like709" Gamma Curve**

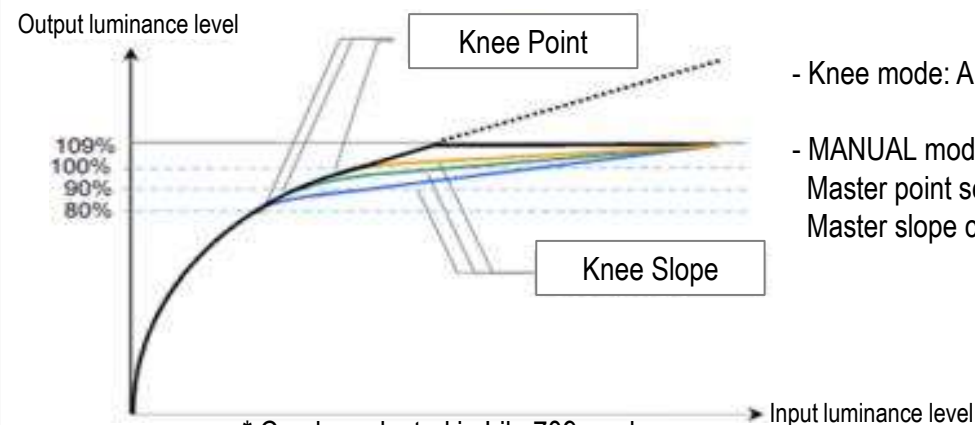
Close to Video/HDTV Standard Rec.709 Gamma



\* Can be selected in Creative Video mode

**Knee Control**

Pro Video Users' Standard Function



\* Can be selected in Like709 mode

- Knee mode: AUTO/MANUAL selectable

- MANUAL mode parameter  
Master point setting: "80.0" - "107.0%"  
Master slope curve: "0" - "99"

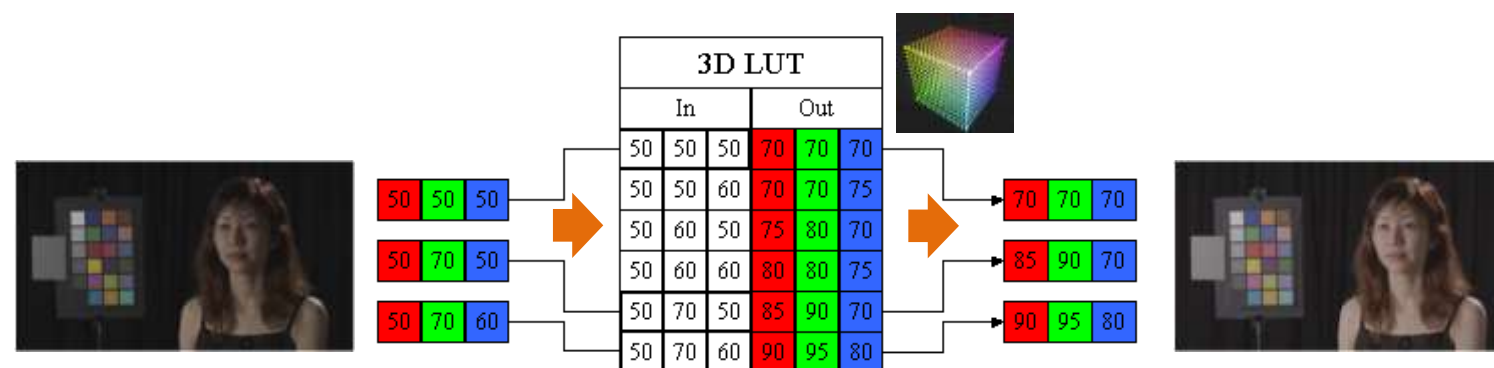
# V-LogL Recording with DMW-SFU1 (Optional) & V-LogL View Assist Function

Upgrade Software Key DMW-SFU1 (Optional) enables log video recording (V-LogL).

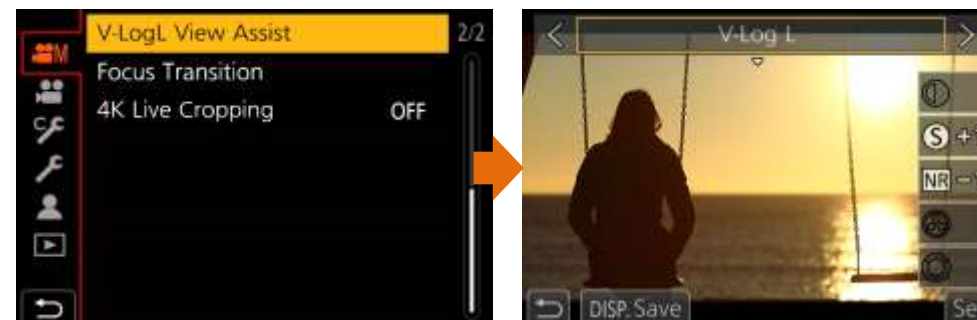
**V-Log / V-LogL have been developed to achieve a similar characteristic curve to Cineon** which is a characteristic curve of film digitalization.

## LUT (Look Up Table)

V-LogL features a log characteristic with 12 stops. Both V-Log and V-LogL have the same characteristic curve and LUT (Look Up Table) can be utilized in common.



## V-LogL View Assist Function



Images with LUT data applied can be displayed on the camera's shooting screen. Up to four sets of LUT data stored on an SD card (Folder 1) can be registered.

Applicable LUT data complies with VARICAM 3DLUT REFERENCE MANUAL Rev.1.0, in ".vlt" format.

NEW

\* The recommended LUT file for this upgrade is the same as that of Varicam35, a LUT complies with ITU-R BT.709.

The link to the page for this LUT will be announced at the Firmware Update Ver2.3 page. Reference) <http://pro-av.panasonic.net/jp/varicam/35/dl.html>



*\* Available after firmware update in second half of 2017*

## Hybrid Log Gamma for 4K HDR Video

**Recording in Hybrid Log Gamma**

**Playback with HDR Compatible TV**



HDMI / SD Connections



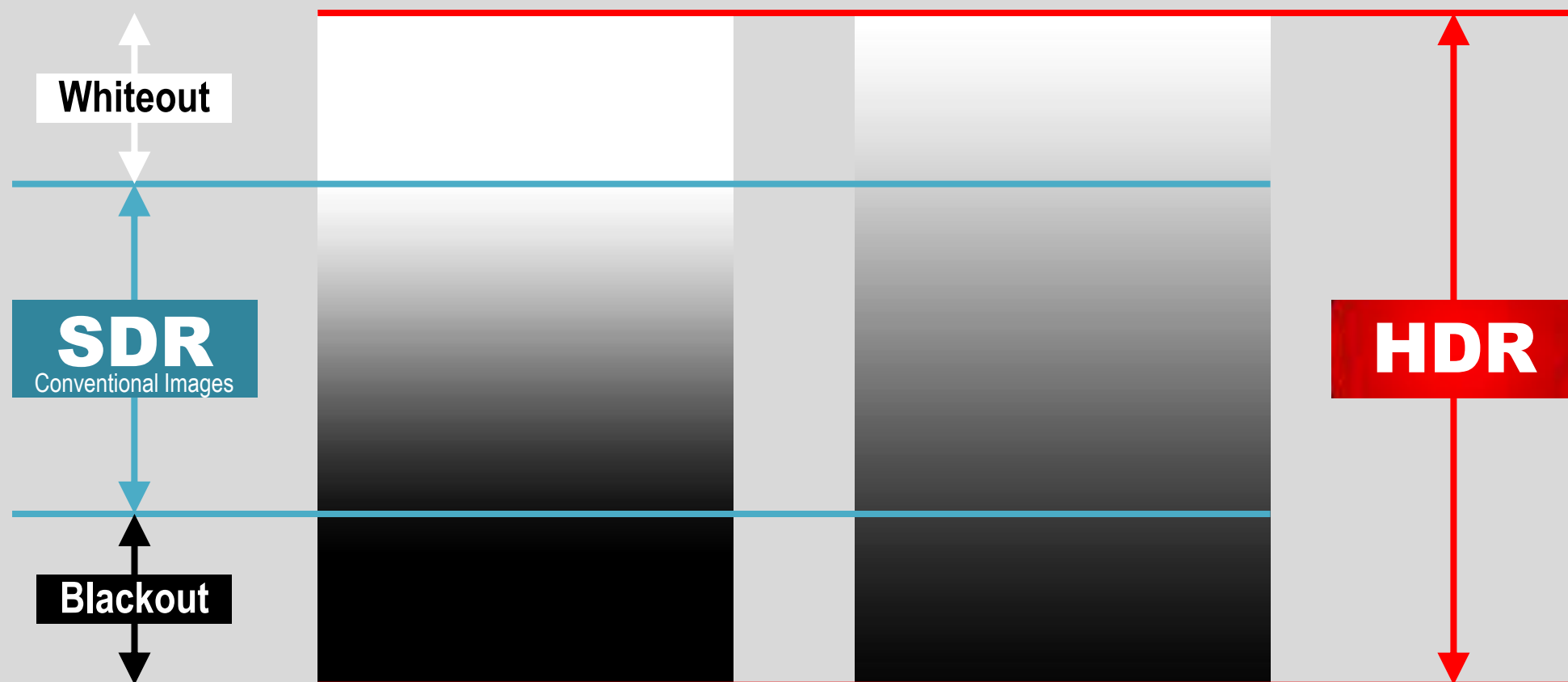
**Full-Time Live View Recording by New Venus Engine**



Standards are being advanced to link with HDR still pictures by 2018.

*\* Available after firmware update in second half of 2017*

HDR expresses both bright parts and dark parts at the same time to achieve images that are close to what you see with your own eyes





# 4K Video in 4:3 Aspect for Shooting with Anamorphic Lens

NEW

A video recording mode for 4K-equivalent resolution in 4:3(1:1.33) is available.



GH5+Lens



Recording Aspect Ratio 4:3 (1:1.33)

Redefine the aspect  
on NLE postproduction



Postproduction Aspect Ratio = 1:2.39 (cinemascope size)

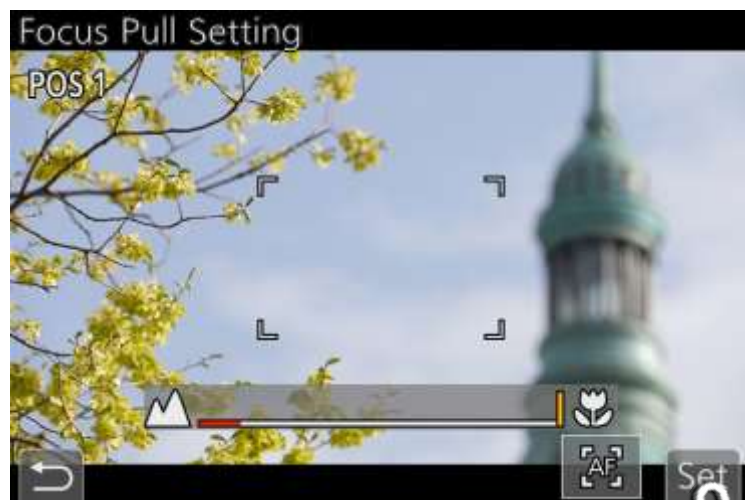
Anamorphic 4K	59.94Hz	MOV / MP4  3,328 x 2,496	59.94p	150Mbps	4:2:0 8bit	LongGOP	LPCM High-res audio for MOV when XLR1 is attached		
			29.97p 23.98p	400Mbps	4:2:2 10bit	ALL-Intra		2nd half of 2017	
				150Mbps		LongGOP		April 2017	
				100Mbps					
	50.00Hz		50.00p	150Mbps	4:2:0 8bit				
			25.00p	400Mbps	4:2:2 10bit	ALL-Intra		2nd half of 2017	
				150Mbps		LongGOP		April 2017	
				100Mbps					
			24.00Hz	24.00p	400Mbps	4:2:2 10bit		ALL-Intra	2nd half of 2017
					150Mbps			LongGOP	April 2017
	100Mbps								
	High-resolution Anamorphic Video								2nd half of 2017

High-resolution Anamorphic Video

## Auto Focus Transition with at a Constant Speed

NEW

### 1. Pre-set the focus arrival position manually



Set the focus to the stop position (tree)

### 2. Set the focus to the start position and start REC.



Set the focus to the start position (building).



The focus point automatically shifts to the tree at a constant speed.

- Focus Arrival Position: 3 points
- Transition Speed: 5 speed
- REC. Start Link: ON/OFF
- Waiting Time: OFF/5sec./10sec.

You can also simulate composition and focus position before recording for accurate video creation.

# Dramatic Slow Motion Video or Unique Quick Motion Video in 4K / FHD

	59.94Hz		24.00Hz	50.00Hz
	29.97p	23.98p	24.00p	25.00p
Slow Motion	-	180fps	Max. 7.5x Slow	-
	-	168fps		180fps
	-	156fps		175fps
	180fps	144fps		150fps
	165fps	132fps		-
	150fps	120fps		125fps
	135fps	108fps		100fps
	120fps	96fps		87fps
	105fps	84fps		75fps
	90fps	72fps		62fps
	75fps	60fps	Max. 2.5x Slow	60fps (4K only)
	60fps	48fps		50fps
	45fps	36fps		37fps
	34fps	28fps		30fps
	32fps	26fps		27fps
	30fps	24fps		25fps
Quick Motion	28fps	22fps		23fps
	26fps	20fps		21fps
	15fps	12fps		12fps
	2fps	2fps		2fps



## Recordable in 4K

NEW



Control Panel

The GUI for exclusive use of the video.



Operation Type

Shutter Duration/ISO, Angle/ISO, Shutter Duration/dB

Shutter Duration

ISO For Still Photographer

Angle

ISO For Film Creator

Shutter Duration

dB For Video Creator

Wave Form Monitor / Vectorscope NEW

To check brightness, luminance or chroma color balance.



Luminance Level for 10bit NEW

[0-1023][64-940][64-1023] can be selected in 10bit.



Time Code

Time Code makes it easy to synchronize multiple images or sound source content in the post production workflow.

Time Code Display	ON / OFF
Count Up	Rec Run / Free Run
Time Code Value	Reset / Manual Input / Current Time
Time Code Mode	Drop Frame / Non-Drop Frame

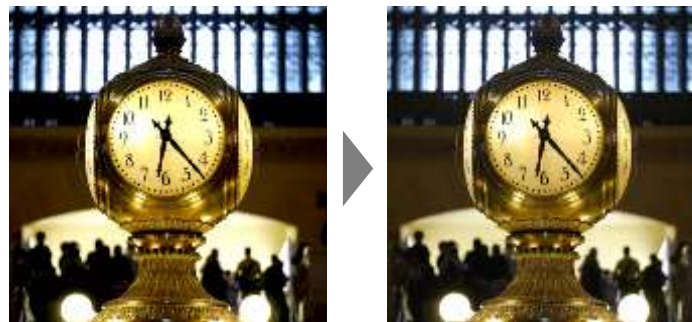
## Hue Adjustment

Hue adjustment is newly added to the Photo Style mode.

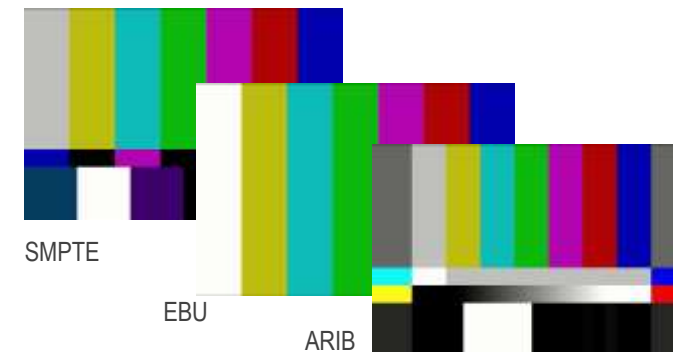


## Cinelike Gamma

This gives the video rich, cinema-like gradation. Cinelike D or Cinelike V is selectable.



## Color Bars & 1kHz Test Tone



## Master Pedestal Level



Adjusts the black level in 31 steps.

## Synchro Scan



You can reduce flickering and stripes on images in Creative Video Mode.

## Zebra Pattern



Indicates parts that may be washed out through overexposure in a zebra pattern.

## Center Marker

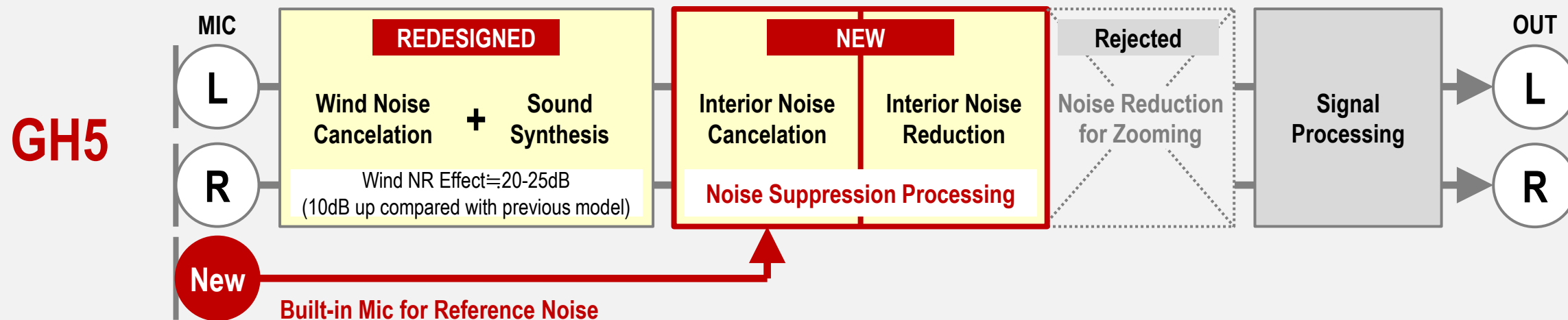


Displays [+], which indicates the center of the recording screen.



## Built-in Microphone with NR Structure for Clearer Sound Recording

NEW



## Simple FHD, 4K Production System

- A simple, highly mobile style that excels for single-handed operation
- Selectable from 4:2:0 8-bit picture quality or 4:2:2 10 bit (⇒Page 27)
- Long GOP / All-Intra is selectable (⇒Page 27)

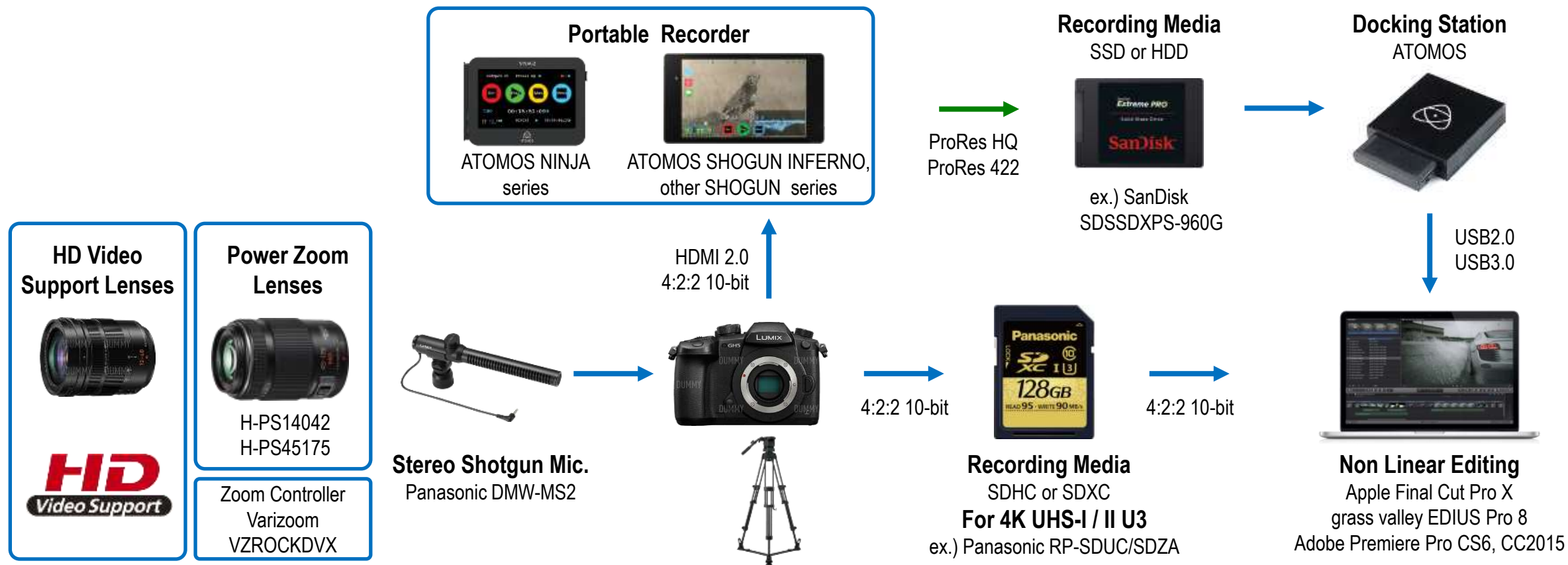


Shooting / Recording

Editing

## Production System

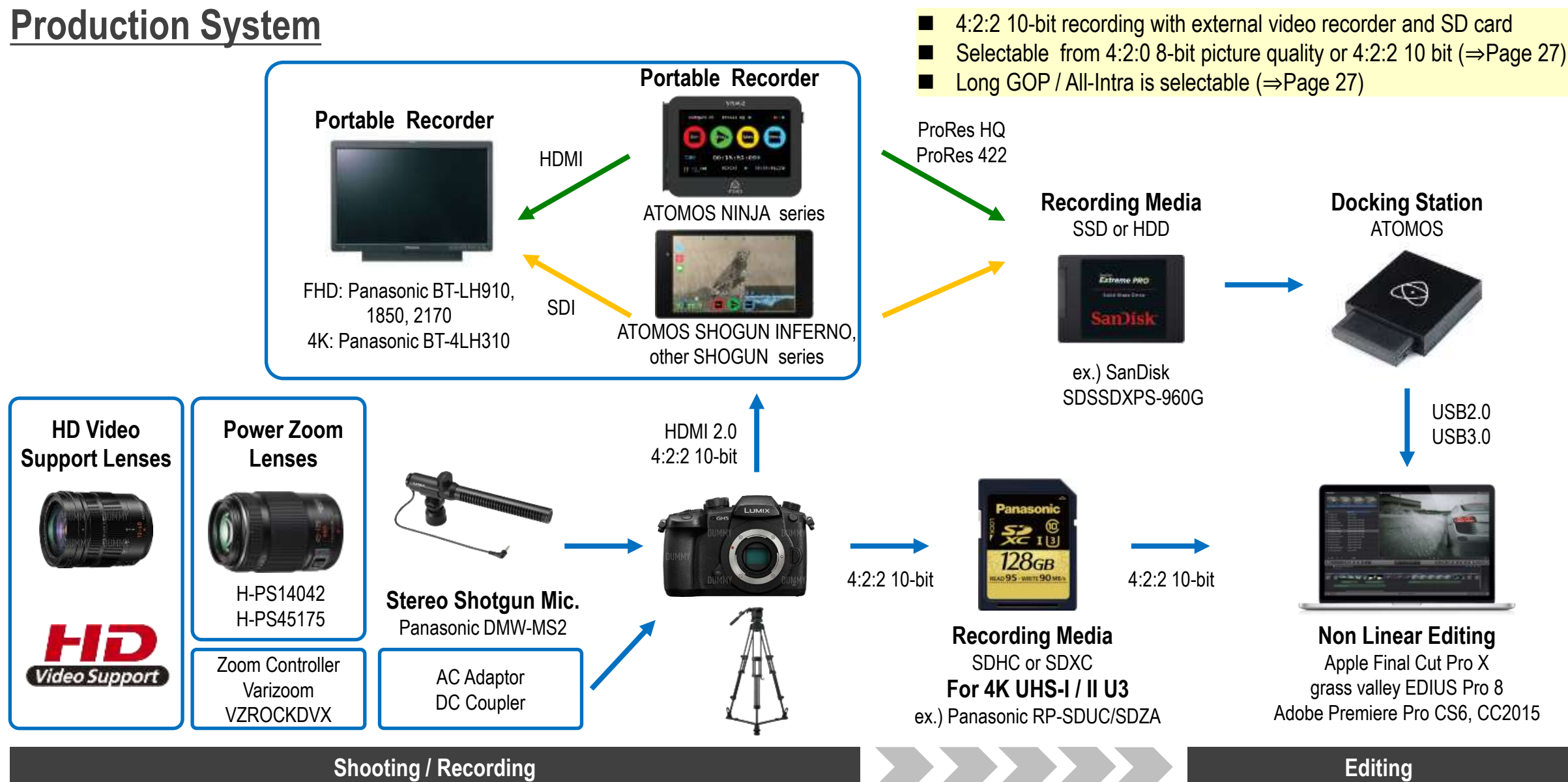
- 4:2:2 10-bit recording with external video recorder and SD card
- Selectable from 4:2:0 8-bit picture quality or 4:2:2 10 bit (⇒Page 27)
- Long GOP / All-Intra is selectable (⇒Page 27)



Shooting / Recording

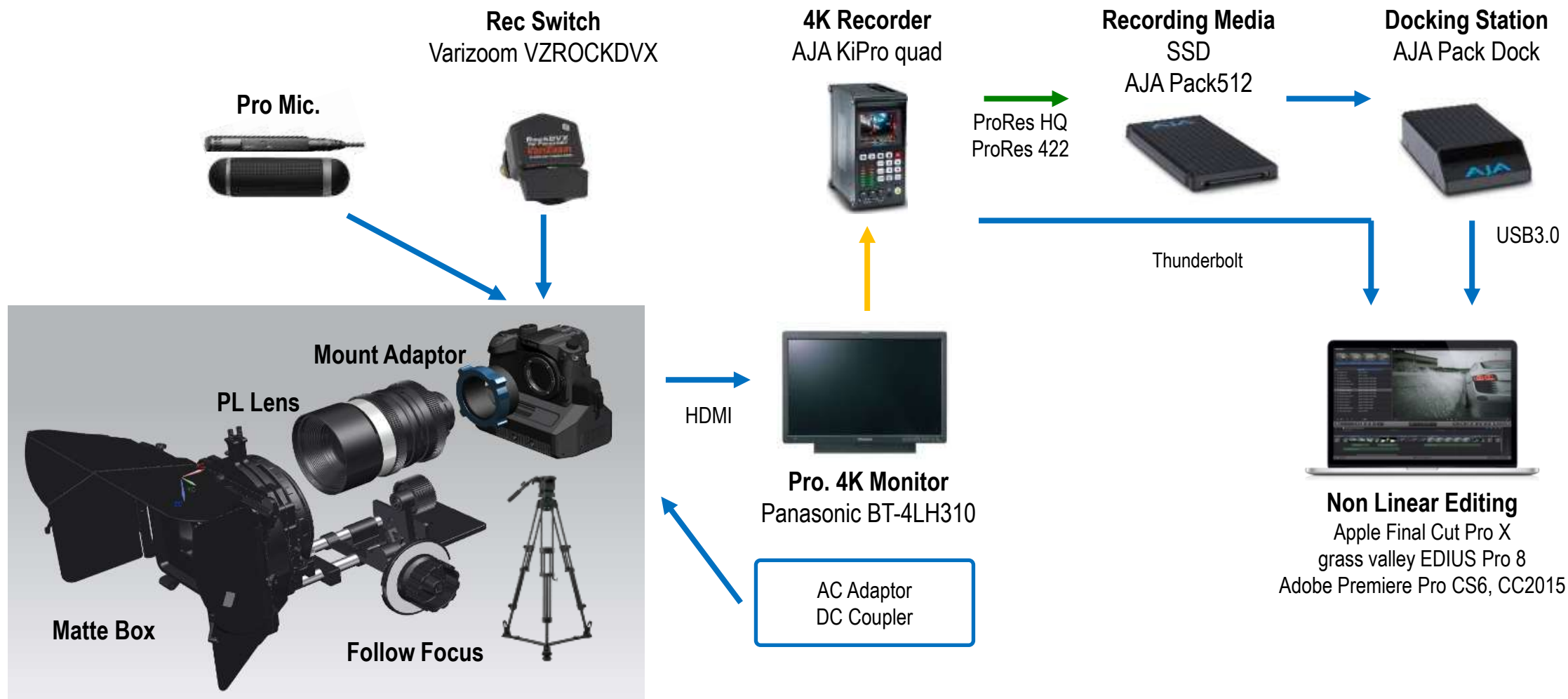
Editing

## Production System



## Full 4K Production System

- Full 4K production system with PL lens
- 4:2:2 10-bit high-quality video recording



Shooting / Recording

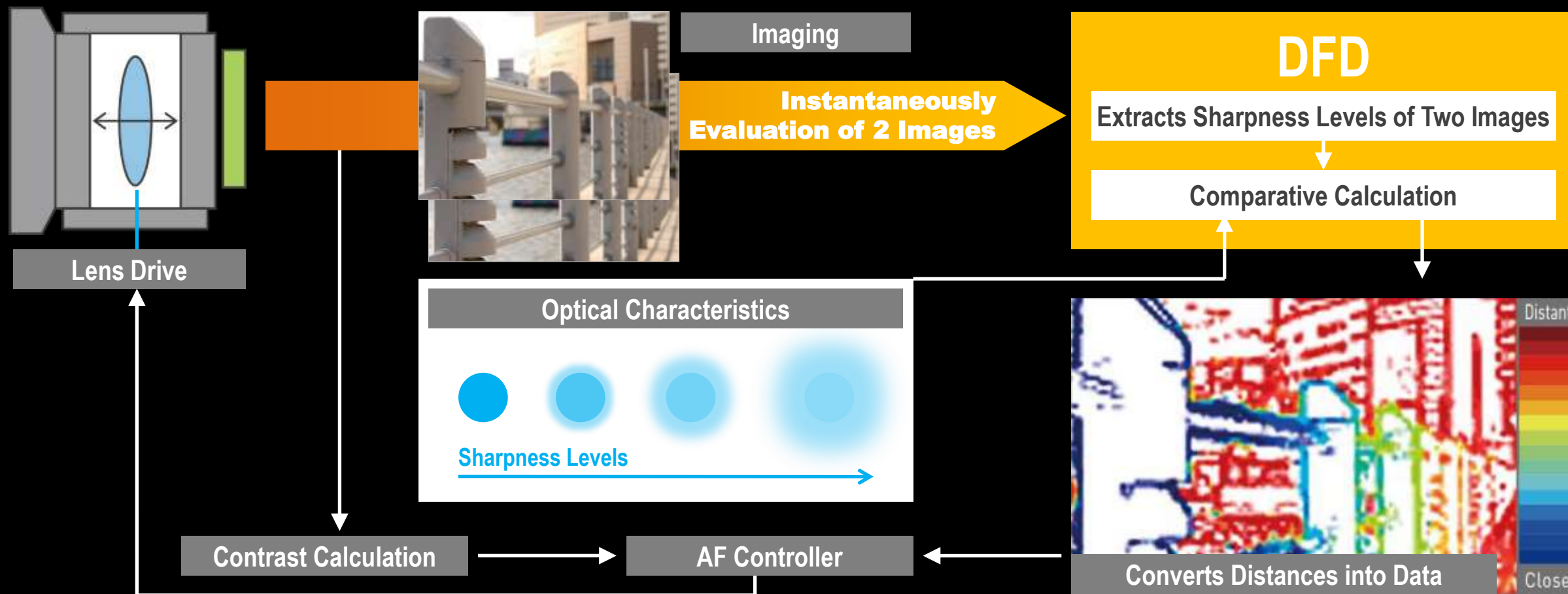
Editing



# Intuitive Response to Photographer's Intention



# Contrast AF with DFD Technology - Panasonic's Original AF System

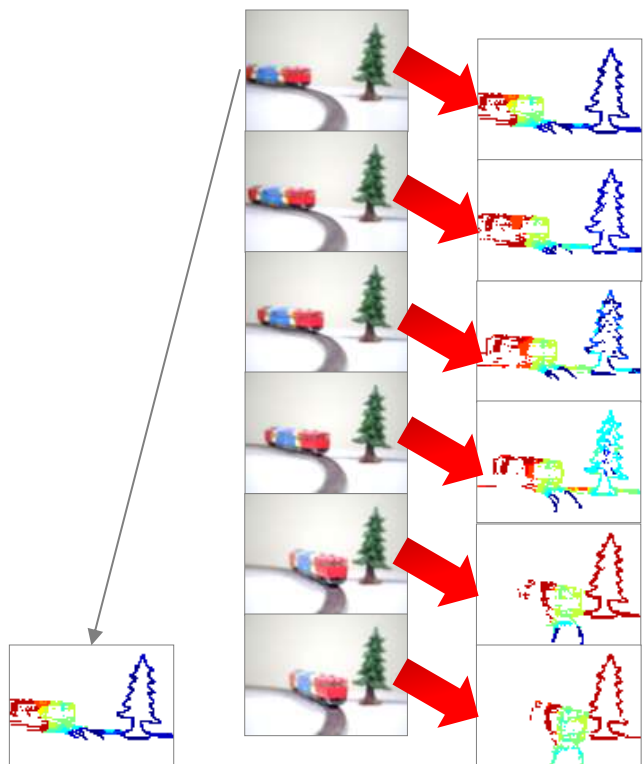


**High Performance Even in Low Light Situations ! No Dedicated Device Required ! No Separate Calibration Required !**

# Higher Speed, More Accurate DFD Technology Improves AF Performance

NEW

Calculating each frame  
by higher processing



GH4

Approx. 6 Frames Delay

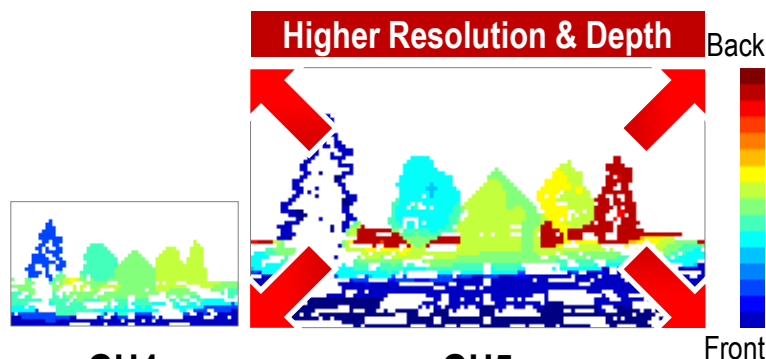
GH5

All Frames

Max. twice as high precision  
both resolution and depth



Converts Distances into Data



GH4

 $64 \times 36 = 2,304$ 

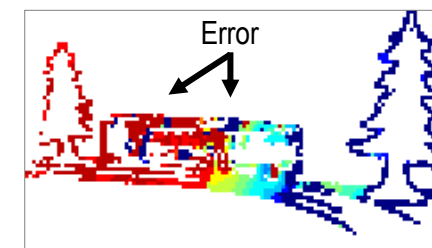
GH5

 $120 \times 68 = 8,160$ 

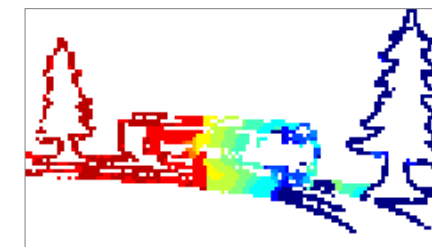
By adopting the motion detector to DFD,  
the moving subject is detected without error



Motion Detector Circuit  
OFF

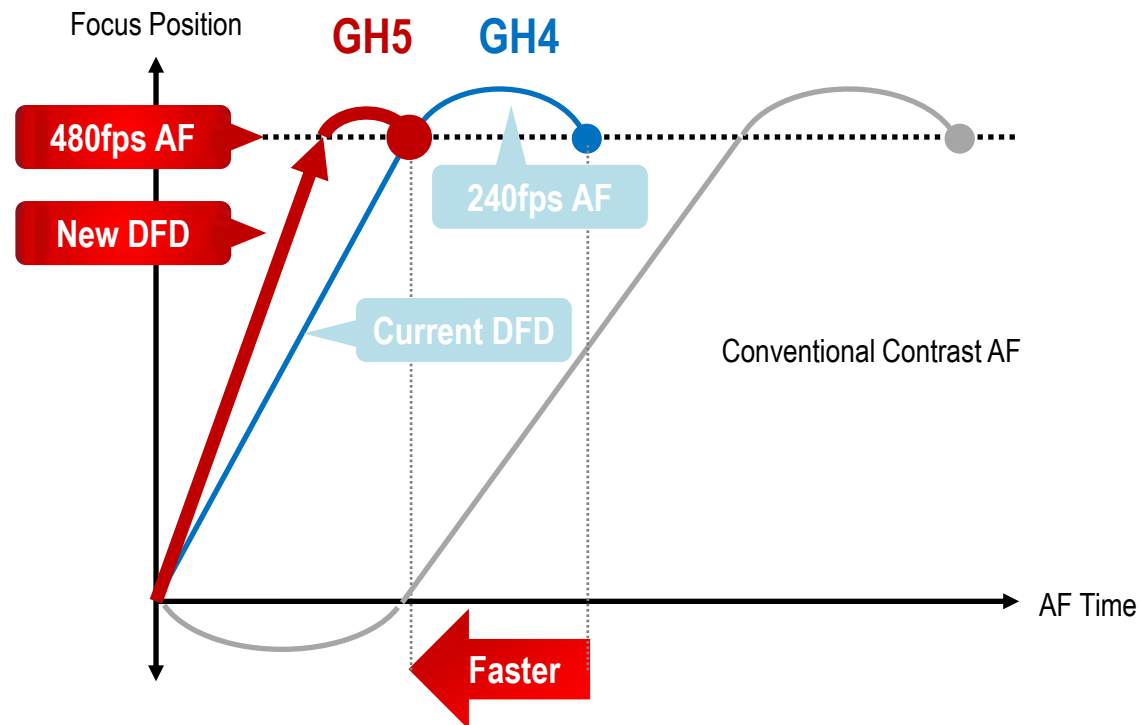


Motion Detector Circuit  
ON



Panasonic

# Top Level of Fast AF Performance Thanks to the New DFD and 480fps AF Drive



## Newly Developed

High-speed Processing Live MOS Sensor  
BIS Mount Unit with High-speed Mechanical Shutter



<b>GH5</b>	<b>GH4</b>
<b>0.05 sec AF</b> With H-ES12060 at wide-end	<b>0.07 sec AF</b>
<b>9 fps AFC Burst</b>	<b>7 fps AFC Burst</b>

# Motion Detection & New DFD Improve Tracking Performance in Both Plane and Depth

## Plane: Tracking the Subject Even If It Moves

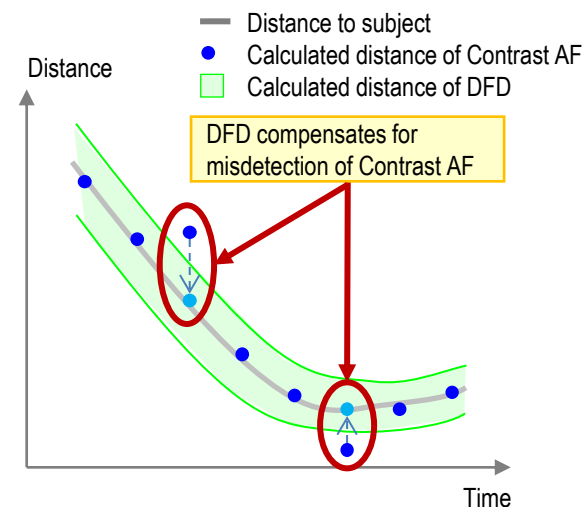


DFD identifies  
subject

Motion estimation vector &  
**New Depth Information**  
strongly track AF frame

## Depth: Continuously Focusing on the Subject

### DFD for Subject Motion + Contrast AF for Precise Focusing



In addition to the contrast, DFD AF monitors  
**the Distance of the Subject (Depth)**  
and calculates the best focus position



# Smooth 4K PHOTO/VIDEO & 6K PHOTO Recording Thanks to New DFD / AF

**GH4**

Conventional DFD

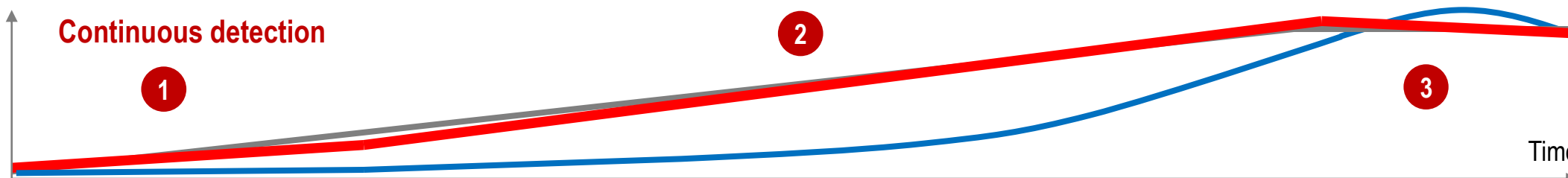
**GH5***New DFD*

Focus position

Subject motion

GH4

GH5



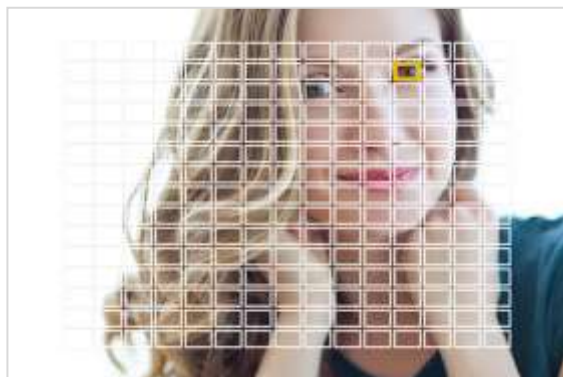
# 225-Area AF Surpassing High-end DSLRs & Intuitive Joystick Control

NEW



## 225-Area Multi AF

More precise focusing by increasing the number of AF areas surpassing high-end DSLRs.



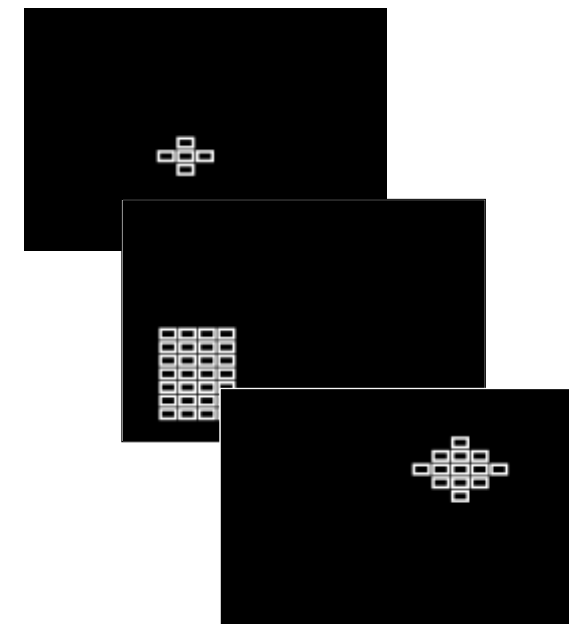
## Custom Multi (225-Area)

In Custom Multi mode, you can freely select the AF-area group.



## Zone AF

Focus area group size and position can be customized for Multi AF / Custom Multi AF.



Smooth, intuitive 225-area AF control is possible with newly adopted Joystick.

# Customize AF According to Shooting Intent

NEW

With customize AF settings, it is possible to adjust AF directionality depending on the shooting scene.

## SET 1

<	Set 1	>
AF Sensitivity	$\pm 0$	
AF Area Switching Sensitivity	$\pm 0$	
Moving object prediction	+1	
Versatile and basic setting		
DISP. Reset		Set



## SET 2

<	Set 2	>
AF Sensitivity	+1	
AF Area Switching Sensitivity	-1	
Moving object prediction	+2	
For subjects that go in one direction and move at the constant speed.		
DISP. Reset		Set



## SET 3

<	Set 3	>
AF Sensitivity	-1	
AF Area Switching Sensitivity	+1	
Moving object prediction	$\pm 0$	
Continue to track the subjects, ignoring possible obstacles.		
DISP. Reset		Set



## SET 4

<	Set 4	>
AF Sensitivity	$\pm 0$	
AF Area Switching Sensitivity	+1	
Moving object prediction	$\pm 0$	
For subjects that change speed and move unpredictably.		
DISP. Reset		Set





### Face/Eye Detection AF



The camera automatically detects the eyes in addition to the face.

### “Seamless” 1-Area AF



It is possible to freely change the size of the AF frame.

### Pinpoint AF



More precise auto focusing is possible by further enlarging the focusing area.

### Full Area AF



It's possible to focus on any point in the 100% field of view.

### Low Light AF



Low Light AF makes it possible to focus subjects more precisely in Moonlight with no other light source.

### Starlight AF



The camera shoot a star with auto focus by accurate calculation of the contrast value in a smaller AF zone.

### MF Assist



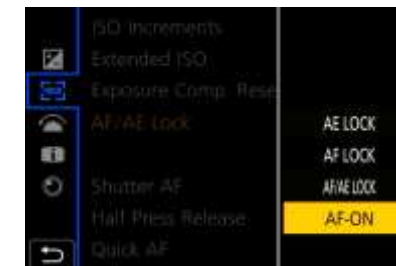
This function enlarges its magnification range up to 10x with MF ring control.

### Focus Peaking



This function shows the peak of the focus in MF / AF+MF even while recording video.

### One Shot AF



This lets you use the AF even in MF mode to roughly focus on the subject, then go back to MF to precisely focus.

# 18MP/30fps & 8MP/60fps Unlimited Shooting

NEW

Approx. **9** times the pixel count of Full HD





## High-resolution 6K PHOTO X High-speed 4K PHOTO / 60fps

NEW

Conventional 4K PHOTO 30fps

6K PHOTO 30fps

Approx. **18MP** / **30fps**

- 4:3 (4,992 x 3,744 18.7MP)
- 3:2 (5,184 x 3,456 17.9MP)

*Print in Larger Size!*

4K PHOTO 60fps

Approx. **8MP** / **60fps**

- Freeze moments with 60fps (approx.8MP)
- Suppress the rolling shutter effect



# High-quality 6K PHOTO / 4K PHOTO by the Image Composition

NEW

## Noise Reduction

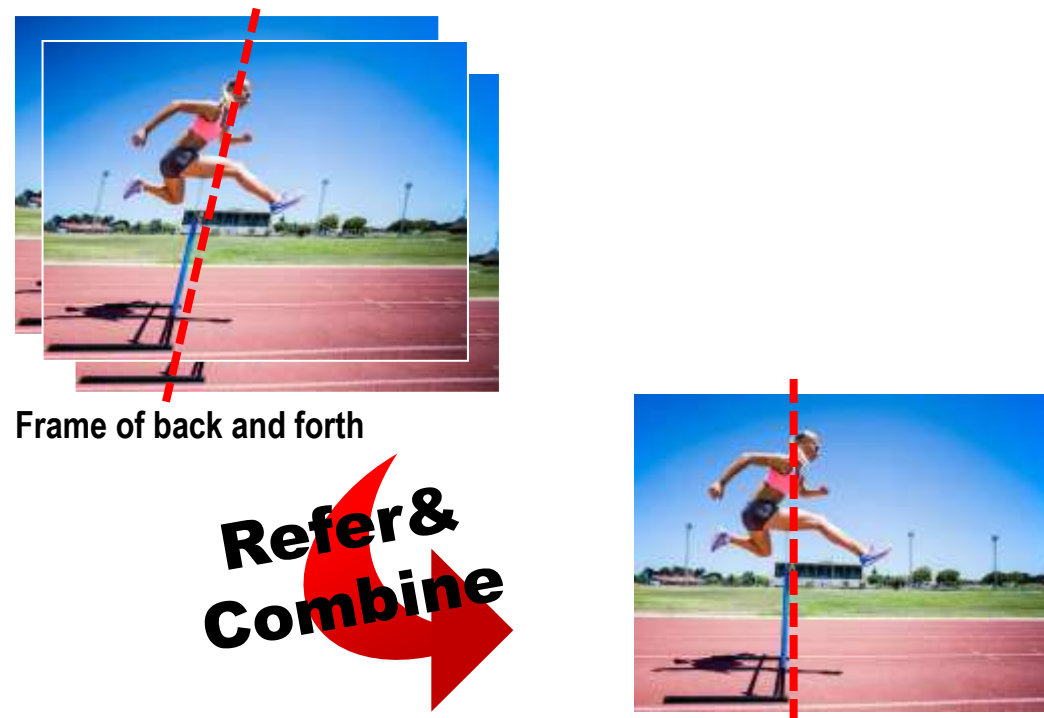
Auto noise reduction\* in high ISO setting / fast shutter speed recording.  
The picture is composed according to the result of motion estimation.

\* OFF is selectable



## Rolling Shutter Distortion Correction

The rolling shutter distortion occurred on panning shooting is corrected without changing the angle of view.





NEW

35mm camera equiv.

**3,680k 0.76x OLED****Super Resolution****Live View Finder**

3,680k-dot OLED  
Magnification 0.76x  
Eyepoint 21mm  
Eye sensor

**1,620k 3.2" RGBW****High Visibility in Outdoor**

NEW

**Rear Monitor**

1,620k-dot RGBW LCD  
3:2, 3.2-inch  
Free-angle  
Static touch control





# Large 0.76x 3,680k OLED LVF – Evolved for Active Outdoor Shooting

NEW



## Clear 3,680k & Large 0.76x

35mm equiv.

High-resolution & high magnification  
make it easy to see subtle image details.



### Eye Point: 21mm

A long eye point distance is  
convenient for people who wear glasses.

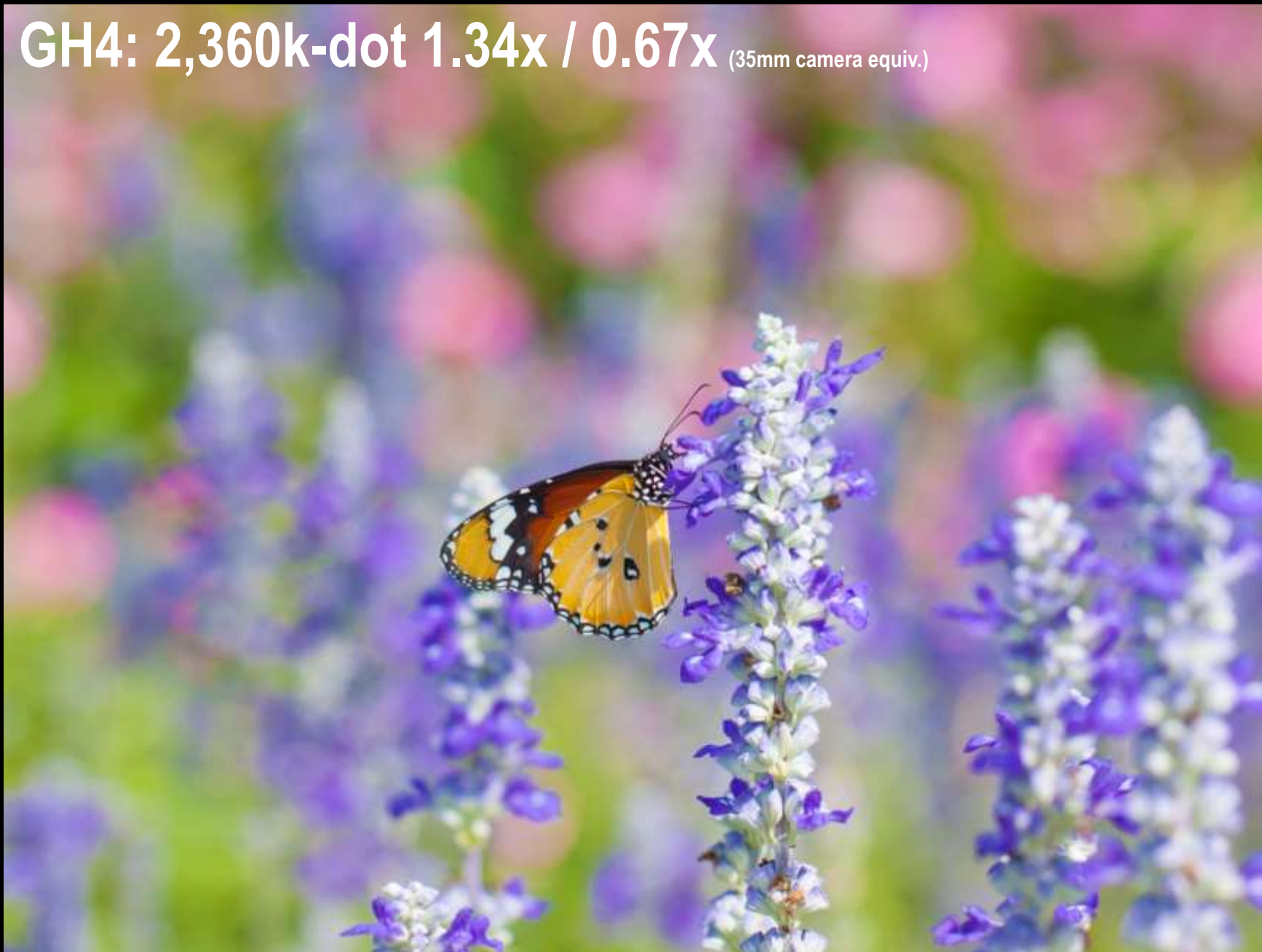


### Wider Viewing Angle

Clear image even when the eye is moved  
away from the center of the viewfinder.

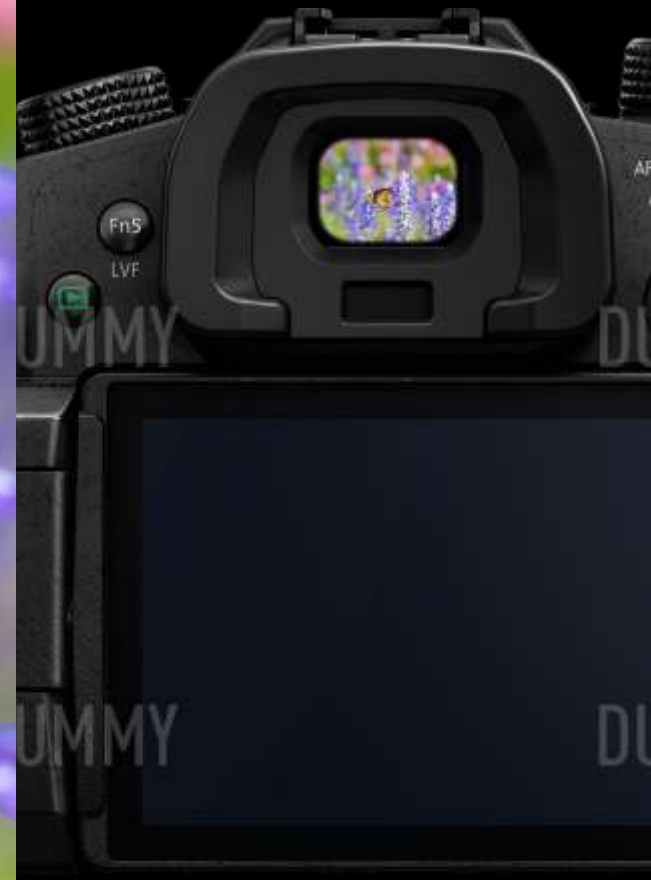
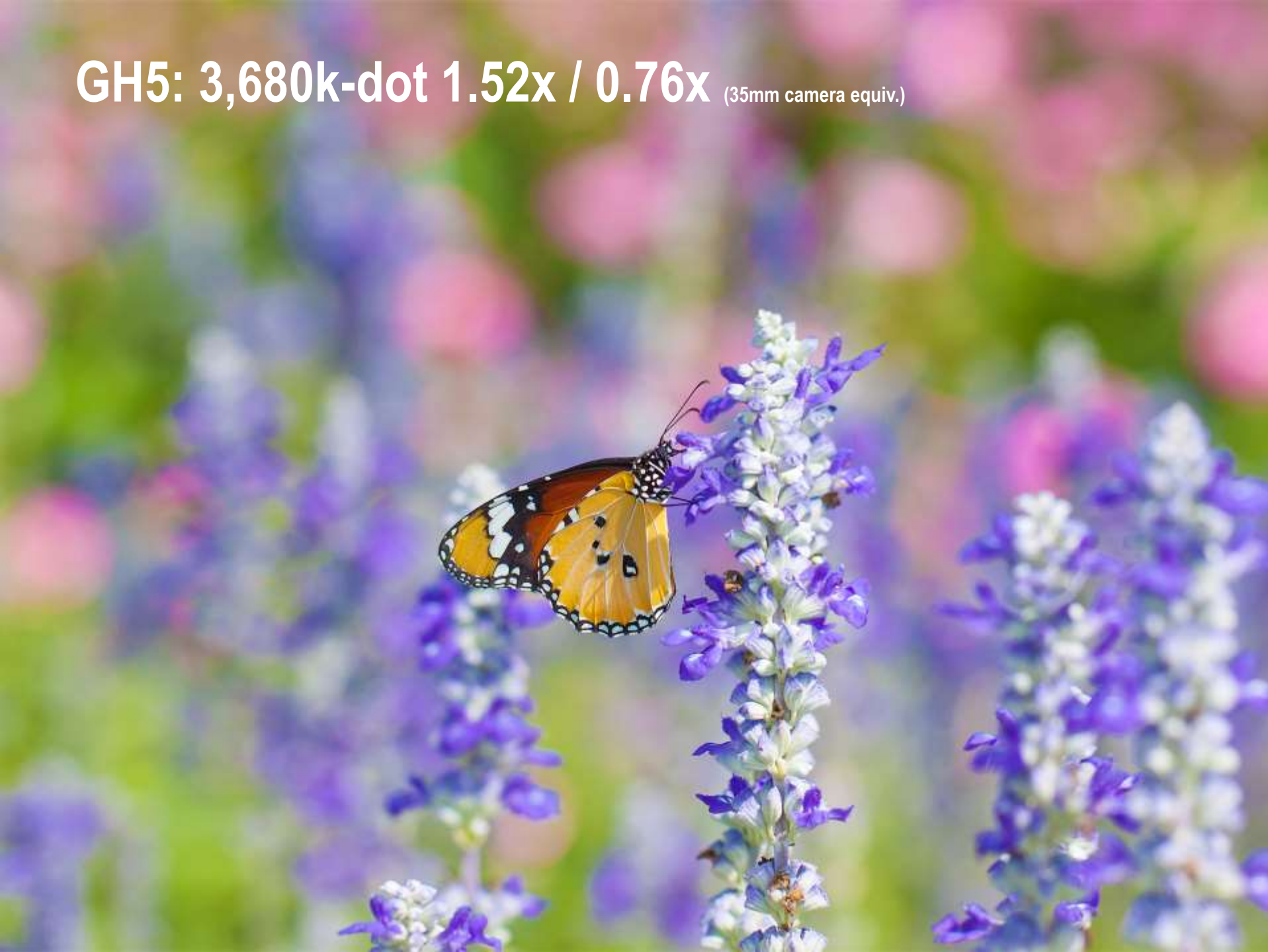
	GH5	GH4
Type	OLED	OLED
Resolution	3,680k dots	2,360k dots
Magnification	1.52x / 0.76x (35mm)	1.34x / 0.67x (35mm)
Eye Point	21mm	21 mm

**GH4: 2,360k-dot 1.34x / 0.67x** (35mm camera equiv.)





**GH5: 3,680k-dot 1.52x / 0.76x** (35mm camera equiv.)





# Large 3.2-inch 1,620k RGBW Monitor – High Visibility Even in Bright Conditions

NEW

**RGBW** (Red, Green, Blue, White) pixel structure achieves max. **2 times or more brightness** compared to GH4, and enables higher visibility even in **bright conditions**.





# Durability to Shoot Under Tough Conditions



## Freezeproof NEW

With freezeproof to -10°C / 14°F, the LUMIX GH5 supports shooting while skiing, snowboarding or skating.

## Splash/Dustproof

This construction was achieved by tightly sealing the sections of the camera body to enable shooting under extreme conditions.



## Mg Alloy Body

A magnesium alloy frame makes the body lightweight yet durable while bringing ruggedness to the compact size.



# More Convenient Operation Meets the Requirements of Professional Users

NEW

## Conventional

- GUI looks dull due to unnecessary space between each item.
- Difficult to find the items (the number of menus has been increased).
- Some menu items are grayed out.
- A customizable menu is required.

**More Professional Evolution**

## GH5

- 1 Increased the number of items on each page to improve comprehensive usage and visibility (5 lines → 8 lines).
- 2 Re-designed the order and position of each menu item. Custom set-up menu can be categorized.
- 3 Cause of "gray out" is shown in a pop-up window.
- 4 Frequently used items can be memorized in "my menu" (up to 23 items).

- 1 8 lines displayed on each page.



- 2 Categorized custom set-up menu.









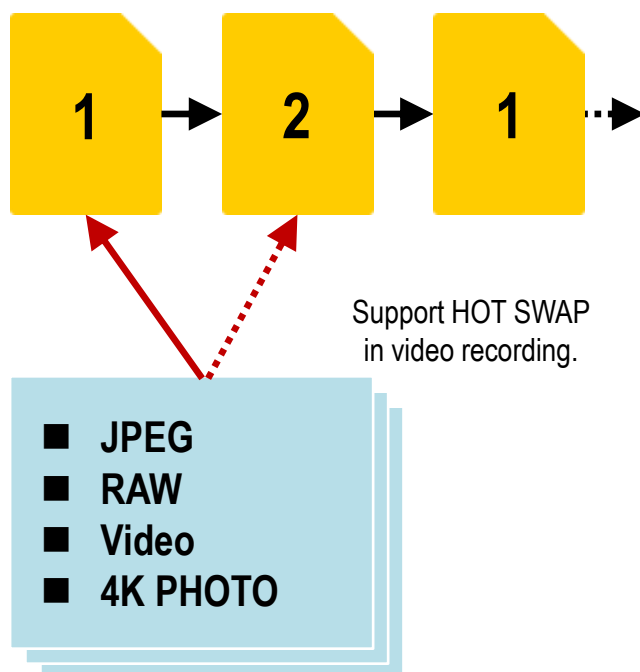
# Double SD Slot for Larger Capacity Recording & Efficient File Arrangement

NEW



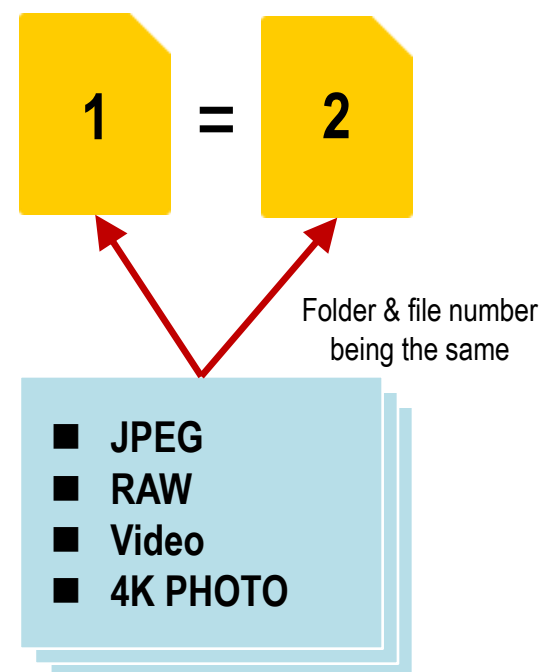
## Relay Rec

The recording media switches automatically and seamlessly from "slot 1" to "slot 2".



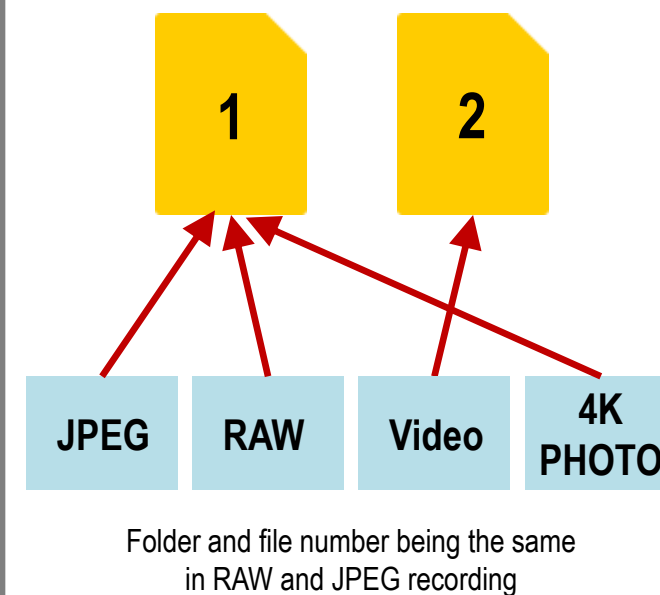
## Backup Rec

Identical data is recorded onto cards in both slots.



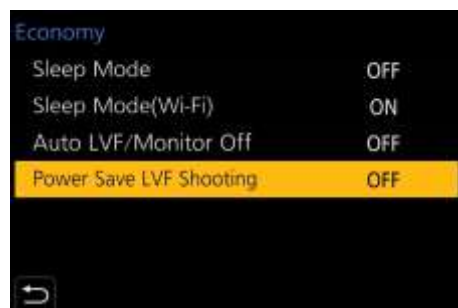
## Allocation Rec

You can select "slot 1" or "slot 2" to record RAW, JPEG, 4K PHOTO, and video data.



# Approx. 1000 Images\* – About 2.5 Times Longer Battery Life

NEW



## Auto OFF After 3, 5 or 10 sec

The eye sensor detects that the eye has moved away, and the camera automatically enters Sleep mode\*\*.



## Quick ON

When the shutter button is half-pressed, advanced LUMIX technology instantly restores the shooting mode!

Normal Setting

410 images



Power Save LVF Shooting

Approx. 1,000 images\*

Viewfinder users who enjoy active shooting get both a high-resolution EVF and extended shooting time!

\* With H-FS12060 (LVF). Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 3 sec.

\*\* When the rear monitor is set to an on-monitor recording information screen.

# New Way of Photography

# Only LUMIX! Focus Control “After Shooting”

NEW

**DFD Technology** calculates the focus areas from a max. of 49 areas

Near

**New 6K PHOTO**s are shot at 30fps while shifting the focus area.



Far

Select

## Post Focus

Combine

## Focus Stacking



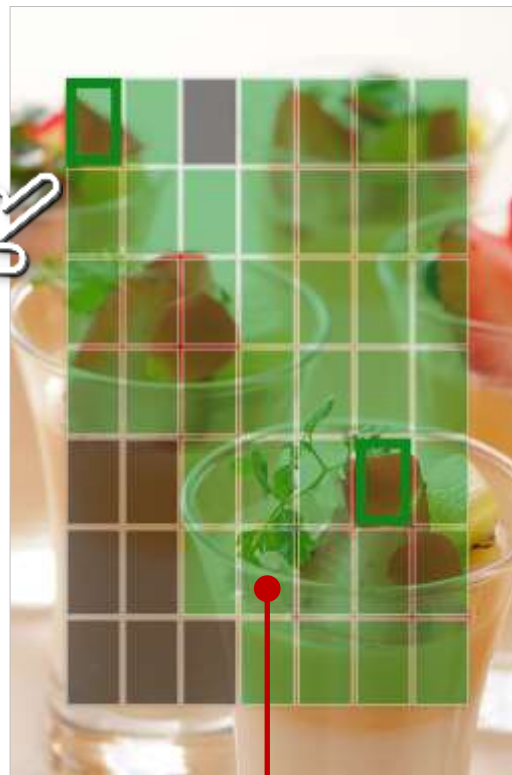
# Control Depth of Field Area After Shooting with Focus Stacking

NEW

REC: No complicated settings

PLAY: Select starting area

PLAY: Select finish area



- No need to focus before shooting.
- Supported by all LUMIX G/LEICA DG lenses.

The green assist display shows the in-focus area to compose the image according to your intention.



*Composed into  
a single picture*

## Beautiful Night Scenery with Illumination by Multi-layering Images



### Composing to a Single Picture

#### Composite Merging (multiple fireworks)

Select the frames (max. 40 shots) you wish to combine, and the camera superimposes the brighter parts of the image.



#### Range Merging (light traces)

Select the first and last frames, and the brighter parts of frames within that range will be superimposed.





## Versatile Bracket Options to Select the Best Settings Later

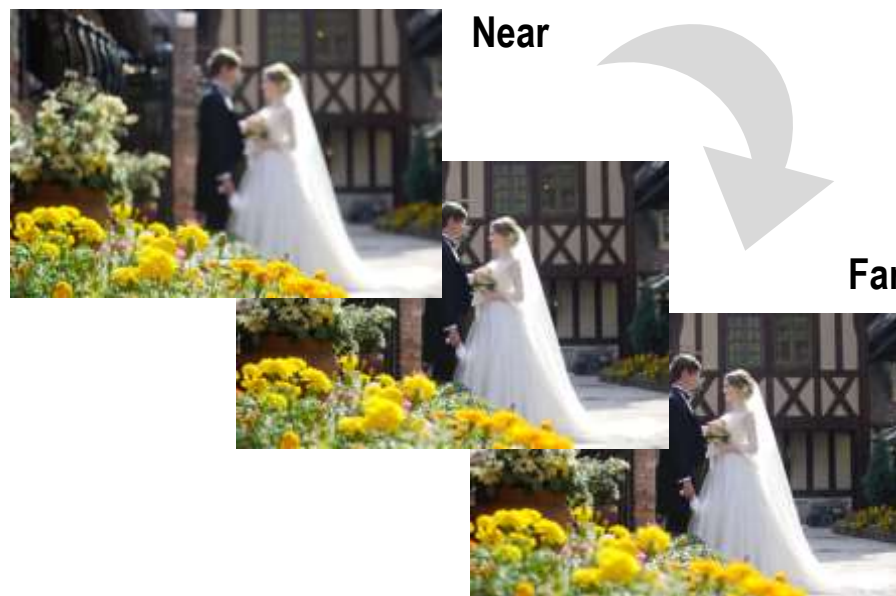
### Bracket Menu



- Exposure
- Aperture Bracket
- Focus Bracket
- WB Bracket

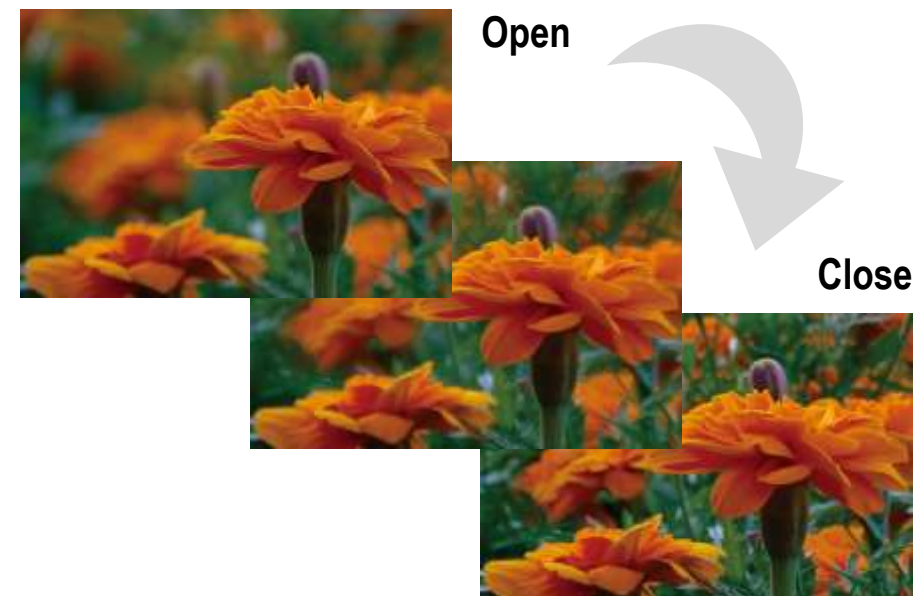
Select the Bracket mode to match the situation or conditions, and choose the best one after shooting.

### Focus Bracket



- Step  
Can be set in 10 levels
- Image Count  
Can be set from 1 to 999 shots
- Sequence  
Near to far, or alternately near and far

### Aperture Bracket



- 3 / 5 shots  
Proper / From Maximum to Minimum
- ALL  
By 1-step

## Adjust, Develop, and Retouch – All Inside the Camera

### Highlight Shadow



Highlight and shadow can be separately adjusted. 3 patterns of settings can be customized in addition to 3 preset patterns (Higher Contrast / Lower Contrast / Brighten Shadow).

### RAW Data Development



It is possible to convert a picture taken in the RAW into the JPEG right on the camera.

- Exposure Comp.
- Photo Style
- i. Dynamic
- Contrast
- Highlight
- Shadow
- Saturation
- Hue
- Noise Reduction
- i. Resolution
- Sharpness
- White Balance
- Color Space / Picture Size

### Clear Retouch



It is possible to erase unwanted objects or figures in an image by just tracing over them on monitor with a fingertip.



# System Expandability

# Wi-Fi 5GHz\* X BLE for Pleasant Remote Control

Wi-Fi 5GHz(IEEE802.11a/n/ac)\* / 2.4 GHz(IEEE802.11b/g/n) & Bluetooth v4.2(Bluetooth Low Energy)

NEW

## Full-time Connection

BLE enables full-time connection between camera and smartphone with low energy consumption.



Once paired, the auto smartphone connection is activated after the second and subsequent use with no camera operation.

## Auto Transfer

After shooting, it automatically switches to Wi-Fi connection, and transfers data to smartphone.



## Easy Remote Control

- Remote wake-up from smartphone
- Auto geo tagging with smartphone's GPS sensor



## Copy of Settings

Copy and set settings from GH5 to another GH5.



Other utilization: Smartphone detects your location at home, then camera automatically connects to Wi-Fi router and starts to backup photos to Cloud Service.

\* 5GHz Wi-Fi is not available in some countries.

## Extended Battery Life & Ergonomic Design



SPLASH/DUST/  
FREEZE PROOF



# DMW-BGGH5

NEW

- Extended battery life when using 2 batteries.  
\* One in the camera and another in the battery grip.
- Splash/dust/freezeproof design.
- Comfortable grip and easy handling (shutter button) even in vertical shooting.
- Buttons can be used in the same way as the GH5.

# XLR Microphone Adaptor for Professional Video Production

NEW

- Input: Analog, XLR Jack x 2 terminals
- Output: Digital, I2S format, Fs = 48k or 96kHz, Bit depth = 16 or 24 bit



**Physical switches / dials  
for easy setup and checking.**



**Openable Cover**  
The setup status of the control panel can be checked through this clear cover.

- For recoding high-grade stereo surround with attached XLR microphone (2ch).
- High-res sound recording in 96kHz/24bit.  
Sound recording format is set from the menu of the camera body. (GH5 MOV only)
- Good for lip-sync recording.
- DC power is supplied by the camera body via a shoe connector.



## External Flash / LED Video Light



DMW-FL200L

DMW-FL360L

DMW-FL580L

VW-LED1

## Microphone

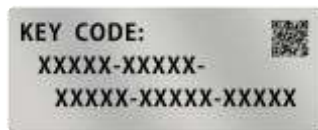
Stereo Shotgun Mic  
DMW-MS2Stereo Mic  
VW-VMS10

## Battery / AC Power

Battery  
DMW-BLF19DC Coupler  
DMW-DCC12AC Adaptor  
DMW-AC10

\* AC Adaptor DMW-AC10 requires DC Coupler DMW-DCC12. DMW-DCC12 requires AC Adaptor DMW-AC10.

## Upgrade Software Key



DMW-SFU1

## Remote Shutter



DMW-RSL1

## Lens Adaptor

Micro Four Third Lens  
DMW-MA1LEICA M Lens  
DMW-MA2MLEICA R Lens  
DMW-MA3R

## Filter / Protector



MC Protector

ND Filter

PL Filter

## Bag

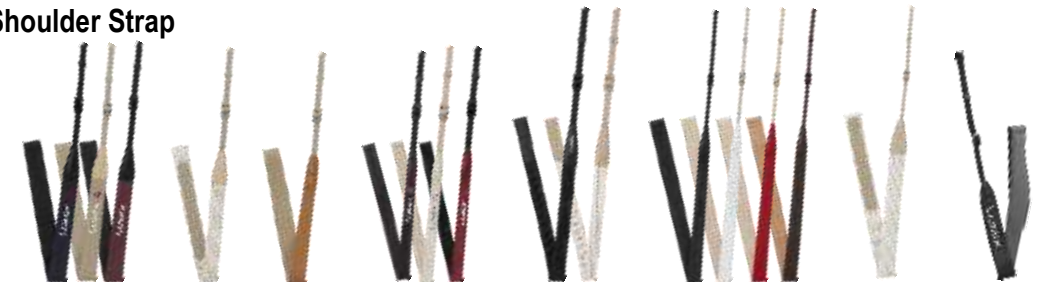


DMW-BAG2-A/C/R

DMW-BAL1

DMW-CZ18

## Shoulder Strap



DMW-SSTG1 / 2 / 3 / 5 / 6 / 7 / 8, DMW-SSTL1



## Body

- Body



## L Kit

- Body
- H-ES12060  
LEICA DG VARIO-ELMARIT 12-60mm /  
F2.8-4.0 ASPH. / POWER O.I.S.



## A Kit

- Body
- H-HSA12035  
LUMIX G X VARIO 12-35mm /  
F2.8 II ASPH. / POWER O.I.S.



## M Kit

- Body
- H-FS12060  
LUMIX G VARIO 12-60mm /  
F3.5-5.6 ASPH. / POWER O.I.S.

LUMIX **G**